NOTICE

All drawings located at the end of the document.

Data Summary Report IHSS Group 000-1



June 2002

DOCUMENT CLASSIFICATION REVIEW WAIVER PER CLASSIFICATION OFFICE

CEX-105-01

ADMIN RECORD 1101-A-000312

ン₇₀

Table of Contents

10 Introduction	1
2 0 Site Characterization	1
3 0 Deviations From Planned Sampling Specifications	31
4 0 Data Quality Assessment	32
4 1 1 Data Quality Assessment Process	32
4 1 2 Verification and Validation of Results	33
413 Accuracy	.34
4 1 4 Precision	40
4 1 5 Sensitivity	46
4 1 6 Summary of Data Quality	46
5 0 References	48
List of Figures	
Figure 1 IHSS Group 000-1 Location Map	, 3
Figure 2 Soil Results Greater Than Background Mean Plus Two Standard Deviat	
Detection/Reporting Limits	4
List of Tables	
Table 1 IHSS Group 000-1 Description	1
Table 2 IHSS Group 000-1 Characterization Sampling Specifications.	5
Table 3 IHSS Group 000-1 Soil Results Greater than Background Mean Plus Two	0
Standard Deviations or Reporting Limits	8
Table 4 IHSS Group 000-1 Summary of Analytical Results	26
Table 5 IHSS Group 000-1 Deviations from Planned Sampling Specifications	31
Table 6 Laboratory Control Sample Evaluation	35
Table 7 Surrogate Recovery Summary	38
Table 8 Field Blank Summary	38
Table 9 Sample Matrix Spike Evaluation	38
Table 10 Sample Matrix Spike Duplicate Evaluation	41
Table 11 Field Duplicate Sample Frequency	43
Table 12 RPD Evaluation	43
Table 13 Validation and Verification Summary	47
Appendix	

IHSS Group 000-1 Wildlife Refuge Worker/Ecological Receptor Action Level Comparison Table

Enclosure

IHSS Group 000-1 Real and QC Data (compact disc)

ACRONYMS AND ABBREVIATIONS

AL action level

AR Administrative Record

CDPHE Colorado Department of Public Health and Environment

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DL Detection Limit

DOE U S Department of Energy
DQA Data Quality Assessment
DQO Data Quality Objective

EPA US Environmental Protection Agency

ER Environmental Restoration

FY Fiscal Year

HPGe high-purity germanium detector

IA Industrial Area

IASAP Industrial Area Sampling and Analysis Plan

IHSS Individual Hazardous Substance Site

K-H Kaiser-Hill Company L L C

MARSSIM Multi-Agency Radiation Survey and Site Investigation Manual

mg/kg milligram per kilogram

N/A not applicable ND not detected

NFAA No Further Accelerate Action PAC Potential Area of Concern

PARCCS precision, accuracy, representativeness, completeness, comparability, and

sensitivity

pCı/g picocurie per gram
POC Point of Compliance
OC quality control

RCRA Resource Conservation and Recovery Act

RFCA Rocky Flats Cleanup Agreement

RFETS Rocky Flats Environmental Technology Site

RIN report identification number

RL reporting limit

SAP Sampling and Analysis Plan

SD standard deviation

SEP Solar Evaporation Ponds

SOR sum of ratio

SSRS Subsurface Soil Risk Screen SVOC semi-volatile organic compound

μg/kg microgram per kilogram
VOC volatile organic compound
V&V verification and validation
WRW Wildlife Refuge Worker

1.0 INTRODUCTION

This Data Summary Report summarizes characterization activities conducted at Individual Hazardous Substance Site (IHSS) Group 000-1 at the Rocky Flats Environmental Technology Site (RFETS) in Golden, Colorado Characterization activities were planned and executed in accordance with the Industrial Area Sampling and Analysis Plan (IASAP) (DOE 2001) and IASAP Addendum #IA-03-02 (DOE 2002a) The IHSSs included in this report are listed in Table 1 and shown on Figure 1

Table 1
IHSS Group 000-1 Description

IHSS Group	IHSS/PAC/UBC Site
000-1	IHSS 000-101 – Solar Evaporation Ponds (SEP) (area north of IHSS 175)
	IHSS 900-165 – Triangle Area
	IHSS 900-176 – S&W Contractor Yard

2.0 SITE CHARACTERIZATION

IHSS Group 000-1 information consists of historical knowledge (DOE 1992-2001) and 77 additional surface soil sampling locations with specifications as described in IASAP Addendum #IA-03-02 (DOE 2002a) The sampling specifications for the characterization samples collected are listed in Table 2. The location of these samples and analytical results greater than background mean plus two standard deviations or detection/reporting limits are presented in Figure 2 and Table 3. A summary of the analytical results is presented in Table 4. Deviations from planned sampling specifications are presented in Table 5. A summary of validated analytical records is presented in Tables 6 through 13. The real and quality control (QC) data are enclosed on a compact disc

Analytical results indicate that benzo(a)pyrene is slightly above the RFCA Tier II action level (AL) in one location in IHSS 900-165 and arsenic is above the RFCA Tier II AL in all three IHSSs, but less than the laboratory reporting limit (RL). All other contaminant concentrations are less than RFCA Tier II ALs. No analytical results are above the RFCA Wildlife Refuge Worker (WRW) ALs (DOE, et al., 2003). A comparison of the analytical results to the RFCA WRW and Ecological Receptor ALs is presented as an appendix

Analytical results indicate that No Further Accelerated Action (NFAA) for IHSS Group 000-1 is warranted for the following reasons

- All contaminant concentrations are less than WRW ALs
- All contaminant concentrations are less than Ecological Receptor ALs except for lead Lead exceeds the Ecological Receptor AL of 25 6 mg/kg in six locations, both surface and subsurface However, five of these locations are less or slightly above the background level of 54 6 mg/kg and the sixth location is 236 mg/kg. The lead Ecological Receptor AL exceedance will be addressed as part of the Comprehensive Risk Assessment (CRA)

Based on the review of Figure 1 of RFCA Attachment 5 (DOE, et al, 2003), IHSS
Group 000-1 is not located in an area prone to landslides or high erosion. The nearest
surface water is North Walnut Creek located approximately 1,000 feet north-northeast
and the nearest downgradient Point of Compliance (POC) is located approximately
4,000 feet northeast. Based on this information and the analytical data, there does not
appear to be a sufficient quantity of contaminant concentrations that would cause an
exceedance of the surface water standard (SWS)

A Subsurface Soil Risk Screen (SSRS) is not required because historical knowledge indicated that subsurface sampling was not necessary and consequently, subsurface soil was not evaluated per IASAP Addendum #IA-03-03

Approval of this Data Summary Report constitutes regulatory agency concurrence of this IHSS Group as an NFAA This information and NFAA determination will be documented in the FY03 Historical Release Report (HRR)

Table 2
IHSS Group 000-1 Characterization Sampling Specifications

		D CCITI		iai actei izati	Joup over Characterization Samphing Specifications	occurration.	(IS		
IHSS	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth	Analyte	Onsite	Offsite
Group					,	Interval		Laboratory Method	Laboratory Method
- 000 - 0	IHSS 101, Solar Evaporation	CM47-A003	2085314 67	750929 01	Surface Soil	0-0 2.	Metals	6200	0109
	Ponds (SEP)	CM47-A004	2085314 67	750785 06	Surface Soil	0-0	Metals	6200	0109
		CM48-A008	2085305 15	751001 59	Surface Soil	0-0 \$	Metals	6200	6010
		CN47-A000	2085374 16	750899 27	Surface Soil	0-0 \$	Metals	6200	6010
		CN47-A001	2085375 35	750825 51	Surface Soil	\$ 0-0	Metals	6200	6010
		CN48-A000	2085369 40	750968 27	Surface Soil	\$ 0-0	Metals	6200	0109
	IHSS 900-165, Tnangle Area	CO46-A000	2085633 51	750622 07	Surface Soil	0-0 2.	Radionuclides	HPGe	Alpha Sper
		CO46 A000	2085633 51	750622 07	Surface Soil	\$ 0-0	Mctals	6200	0109
		CO46 A000	2085633 51	750622 07	Surface Soil	\$ 0-0	SVOCs	N/A	8270
		CO46-A001	2085695 38	750660 14	Surface Soil	0-0 5.	Radionuclides	HPGe	Alpha Sper
		CO46-A001	2085695 38	750660 14	Surface Soil	.\$ 0-0	Mctals	6200	0109
		CO46-A001	2085695 38	750660 14	Surface Soil	0-0 5.	SVOCs	A/X	8270
		CP46-A000	2085821 49	750662 52	Surface Soil	0-0 5.	Radionuclides	HPGe	Alpha Sper
		CP46-A000	2085821 49	750662 52	Surface Soil	0-0 2.	Metals	6200	0109
		CP46-A000	2085821 49	750662 52	Surface Soil	0-0 2.	SVOCs	A/A	8270
		CP46-A001	2085826 25	750589 95	Surface Soil	0-0 \$	Radionuclides	HPGe	Alpha Spec
		CP46-A001	2085826 25	750589 95	Surface Soil	.5 0-0	Metals	6200	0109
		CP46-A001	2085826 25	750589 95	Surface Soil	.50-0	SVOCs	A/A	8270
		CQ45-A000	2085951 17	750524 51	Surface Soil	.5 0-0	Radionuclides	HPGe	Alpha Spec
		CQ45-A000	2085951 17	750524 51	Surface Soil	.5 0-0	Metals	6200	0109
		CQ45-A000	2085951 17	750524 51	Surface Soil	0-0 \$	SVOCs	N/A	8270
		CP46-A002	2085884 54	750630 40	Surface Soil	.5 0-0	Radionuclides	HPGe	Alpha Spec
		CP46-A002	2085884 54	750630 40	Surface Soil	.5 0-0	Metals	6200	0109
	-	CP46-A002	2085884.54	750630 40	Surface Soil	.5 0-0	SVOCs	ΝΆ	8270
		CP46-A003	2085879 78	750701 78	Surface Soil	.5 0-0	Radionuclides	нРСе	Alpha Spec
		CP46-A003	2085879 78	750701 78	Surface Soil	0-0 \$	Metals	6200	0109
		CP46-A003	2085879 78	750701 78	Surface Soil	0-0 2	SVOCs	A/A	8270

le 2	
Table	
-	

	Offsite Laboratory	Method	Alpha Spec	0109	8270	Alpha Sper	0109	8270	Alpha Spec	0109	8270	Alpha Spec	6010	8270	8082	Alpha Spec	0109	8270	8082												
	Onsite Laboratory	Method	HPGe	6200	N/A	N/A	HPG	6200	N/A	N/A																					
S	Analyte		Radionuclides	Metals	SVOCs	PCBs	Radionuclides	Metals	SVOCs	PCBs																					
ecification	Depth	TILLET VAL	.5 0-0	.50-0	0-0 2.	0-0 \$	50-0	50-0	0-05	\$ 0-0	0-0 5.	.5 0-0	.5 0-0	0-0 2.	\$00	0-05	.5 0-0	\$ 0-0	0-0 5.	.5 0-0	0-0 \$.5 0-0	.5 0-0	.50-0	0-05	.50-0	.50-0	0-0 \$.	0-05	.50-0	0-0 2
up 000-1 Characterization Sampling Specifications	Media		Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil
aracterizatio	Northing		750742 23	750742 23	750742 23	750668 47	750668 47	750668 47	750598 27	750598 27	750598 27	750563 77	750563 77	750563 77	750639 91	750639 91	75063991	750708 92	750708 92	750708 92	750599 46	750599.46	750599 46	750748 18	750748 18	750748 18	750748 18	750713 68	750713 68	750713 68	750713 68
roup 000-1 Ch	Easting		2085945 22	2085945 22	2085945 22	2085940 46	2085940 46	2085940 46	2085949 98	2085949 98	2085949 98	208601184	208601184	208601184	2086008 27	2086008 27	2086008 27	2086003 51	2086003 51	2086003 51	2086073 71	2086073 71	2086073 71	2085253 99	2085253 99	2085253 99	2085253 99	2085319 43	2085319 43	2085319 43	2085319 43
THSS Cro	Location Code		CO46-A000	CO46-A000	CO46-A000	CO46-A001	CO46-A001	CO46-A001	CO46-A002	CO46-A002	CO46-A002	CO46-A003	CO46-A003	CO46-A003	CO46.A004	CO46. A004	CO46-A004	CO46. A005	CO46-A005	CO46-4005	CO46-A006	CO46-A006	CO46-A006	CM46-A001	CM46-A001	CM46-A001	CM46-A001	CM46-A002	CM46-A002	CM46-A002	CM46-A002
	IHSS/PAC/UBC Site																														
	IHSS	Group																													

Table 2

		IHSS Gro	roup 000-1 Ch	aracterization	oup 000-1 Characterization Sampling Specifications	Decilication	1		Official
NSHI	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth	Analyte	Conside	I shorstory
Group			The second		i w	Interval		Method	Method
	W 3 75 000 00 H	2004	2085330 14	750497 15	Surface Soil	0-0 5.	Radionuclides	HPGe	Alpha Spec
	MSS 900-176, S&W Collustrol CM45-A001	CM45-A001	2085330 14	750497 15	Surface Soil	0-0 5.	Metals	9029	0109
		CM43-A001	200222014	750497 15	Surface Soil	0-0 5.	SVOCs	N/A	8270
		CM45-A001	200222017	20 75037	Surface Soil	005	Radionuclides	HPGe	Alpha Spec
		CN44-A000	2085457 44	750357 95	Surface Soil	0-0 5	Metals	6200	6010
		CNA4-AUGO	2085457 44	750357 95	Surface Soil	\$00	SVOCs	N/A	8270
		CN46. A DOO	2085444 35	750722 00	Surface Soil	.50-0	Radionuclides	HPGe	Alpha Spec
		CN46-A000	2085444 35	750722 00	Surface Soil	0-05	Metals	6200	0109
		CN46-A000	2085444 35	750722 00	Surface Soil	.50-0	SVOCs	N/A	8270
		CN46 A001	2085450 30	750649 43	Surface Soil	0-0 5.	Radionuclides	HPGe	Alpha Spec
		CN46 ADOI	2085450 30	750649 43	Surface Soil	.5 0-0	Metals	6200	0109
		CN46 AD01	2085450 30	750649 43	Surface Soil	0-0 5.	SVOCs	N/A	8270
		CN46 A002	2085387 24	750607 79	Surface Soil	0-0.5	Radionuclides	HPGe	Alpha Spec
		CN46 A002	2085387 24	750607 79	Surface Soil	0-0	Metals	6200	0109
		CN46-A002	2085387 24	750607 79	Surface Soil	0-0 2.	SVOCs	N/A	8270
		CN45 A000	2085455 06	750503 10	Surface Soil	\$ 0-0	Radionuclides	HPGe	Alpha Spec
		CN45 A000	2085455 06	750503 10	Surface Soil	0-0 2.	Metals	6200	6010
		CN45 A000	2085455 06	750503 10	Surface Soil	0-0	SVOCs	N/A	8270
		CN45-A001	2085516 92	750398 40	Surface Soil	\$ 0-0	Radionuclides	HPGe	Alpha Spec
	***	CN45-A001	2085516 92	750398 40	Surface Soil	0-0 2.	Metals	6200	0109
		CN45-A001	2085516 92	750398 40	Surface Soil	0-0 5.	SVOCs	A/A	8270
_									

N/A = not available

900-176		Hasting	Northine	Analyte	Denth	Denth	Result	Reporting	Tier I Action	Tier II Action	Rackeround	Unit
900-176	ж.	ν _γ *			Start (feet)	Eind (feet)	* C 35	Limit	Level			
	CN46-000	2085444 40	750722 10	Bis(2-Ethylhexyl)Phthalate	0	0	930 00	069	3200000	320000	N/A	ug/kg
900-176	CM46-001	2085254 10		Bis(2-Ethylhexyl)Phthalate	0	0	1200 00	720	3200000	320000	A/A	ug/kg
9/1-006	CM46-002	2085319 50	750699 70	Bis(2-Ethylhexyl)Phthalate	0	0	75000 00	14000	3200000	320000	A/N	ug/kg
921-006	CM46-002	2085319 50	750699 70	Aroclor 1254	0	0	00 99	4.5	2240 00	224000 00	A/N	ug/kg
921-006	CM46-002	2085319 50	750699 70	Aroclor 1260	0	0	78 00	\$	2240 00	224000 00	N/A	ug/kg
900-165	CP46-003	2085879 70	750701 80	2,4,6-Tribromophenol	0	0.5	2700 00	0	ΝΑ	N/A	N/A	ug/kg
591-006	CP46-002	2085884 50	750630 40	2,4,6-Tribromophenol	0	0.5	2700 00	0	VΑ	N/A	V/A	ug/kg
900-165	CQ46-005	2086003 60		2,4,6-Tribromophenol	0	0.5	2700 00	0	N/A	N/A	N/A	ug/kg
591-006	CQ46-003	208601180	750563 80	2,4 6-Tribromophenol	0	0.5	2700 00	0	N/A	N/A	V/N	ug/kg
591-006	CQ46-000	2085945 10	750742 30	2,4,6-Tribromophenol	0	0.5	2800 00	0	N/A	N/A	V/A	ug/kg
9/1-006	CM46-001	2085254 10		2,4,6-Tribromophenol	0	0	2900 00	0	ΝΑ	N/A	V/A	ug/kg
9/1-006	CM46-002	2085319 50	750699 70	2,4 6-Tribromophenol	0	0	2900 00	0	N/A	N/A	A/A	ug/kg
900-176	CN46-000	2085444 40	750722 10	2,4,6-Tribromophenol	0	0	3000 00	0	N/A	N/A	A/N	ug/kg
900-176	CM45-001	2085330 10		2,4,6-Tribromophenol	0	0	3100 00	0	N/A	N/A	V/V	ug/kg
900-176	CN45-001	2085516 80	750398 20	2,4,6-Tribromophenol	0	0	3100 00	0	V/A	N/A	V/N	ug/kg
900-165	CQ46-001	2085940 50		2 4,6-Tribromophenol	0	0.5	3100 00	0	N/A	N/A	V/V	ug/kg
900-165	CQ46-002	2085950 00		2,4,6-Tribromophenoi	0	0.5	3100 00	0	N/A	N/A	V/V	ug/kg
900-165	CQ45-000	2085951 20	750524 50	2,4,6-Tribromophenol	0	0.5	3100 00	0	N/A	N/A	A/A	ug/kg
591-006	CQ46-006	2086073 80		2,4 6-Tribromophenol	0	0.5	3100 00	0	N/A	N/A	N/A	ug/kg
921-006	CN46-001	2085450 20		2,4,6-Tribromophenol	0	0	3200 00	0	N/A	N/A	V/N	ug/kg
591-006	CO46-001	2085695 30		2 4 6-Tribromophenol	0	0.5	3200 00	0	N/A	N/A	V/N	ug/kg
591-006	CQ46-004	2086008 20		2 4,6-Tribromophenol	0	0.5	3200 00	0	N/A	N/A	V/V	ug/kg
9/1-006	CN44-000	2085457 40		2,4,6-Tribromophenol	0	0	3300 00	00	N/A	N/A	V/V	ug/kg
\$91-006	CO46-000	2085633 50		2,4,6-Tribromophenol	0	0.5	3300 00	0	N/A	N/A	N/A	ug/kg
900-176	CN46-002	2085387 30		2,4 6-Tribromophenol	0	0	3400 00	0	N/A	N/A	N/A	ug/kg
900-176	CN45-000	2085455 00		2,4 6-Tribromophenol	0	0	3500 00	0	N/A	N/A	V/N	ug/kg
900-165	CP46-000	2085821 50		2,4 6-Tribromophenol	0	0.5	3800 00	0	N/A	N/A	V/A	ug/kg
900-165	CP46-001	2085826 20	750589 90	2,4,6-Tribromophenol	0	0.5	3800 00	0	N/A	N/A	N/A	ug/kg

Analyté
Americium-241
Americium-241
Americium-241
Americium-24
Americium-24
Amencium-24
Amencium-24
Americium-24
Amencium-24
Amencium-24
Amencium-24
Uranium-235
Uranıum-235
Uranium-235
Uranium-235
Urantum-235
Uranium-235
Uranıum-235
Uranium-235
Uranium-235
Uranium-235
1 mmm 236

3
P
3
ਢ
•

	Unit	ug/kg	ug/kg	ugAgu	ug/kg	ug/kg	ug/kg	ug/kg																						
nits	Background Mean+2SD	NA	N/A	N/A	N/A	N/A	N/A	A/A	N/A	A/A	N/A	A/A	Y/Z	N/A	N/A	N/A	N/A													
eporting Lir	Tier II Action Background Level Mean+2SD	A/X	A/A	N/A	N/A	N/A	N/A	A/A	A/A	N/A	N/A	N/A	A/A	N/A	N/A	N/A	N/A	N/A	ΝΑ	V/A	N/A	N/A	Α'n	A/A	76800000	61400	614000	N/A	N/A	N/A
iations or R	Tier I Action Level	N/A	N/A	N/A	A/A	N/A	N/A	N/A	ΝΆ	N/A	N/A	A/X	N/A	A/X	A/Z	A/A	A/X	N/A	A/X	N/A	N/A	N/A	N/A	N/A	76800000	6140000	61400000	N/A	N/A	A/A
ndard Dev	Reporting Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	017	01.6	110	0	0	0
us Two Sta	Result	00 0081	1800 00	1900 00	00 0061	00 0061	2000 00	2000 00	2000 00	2000 00	2000 00	2000 00	2100 00	2100 00	2100 00	2200 00	2200 00	2200 00	2200 00	2300 00	2300 00	2400 00	2500 00	2600 00	00 0061	00 052	200 00	00 0091	1700 00	00 0061
Mean Pl	Depth End (feet)	0	0	0	0.5	0.5	0	0.5	0.5	50	0.5	0.5	0	0	0.5	0	0.5	0.5	0.5	0	0.5	0	0.5	0.5	0.5	\$0	0.5	0.5	0.5	0
round l	Depth Start (feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IHSS Group 000-1 Soil Results Greater than Background Mean Plus Two Standard Deviations or Reporting Limits	Analyte	Terphenyl-D14	Fluoranthene	Benzo(K)Fluoranthene	Chrysene	2-Fluorobiphenyl	2-Fluorobiphenyl	2-Fluorobiphenyl																						
Soil Results	Northing	750699 70	750502 20	750748 30	750660 20	750563 80	750722 10	750701 80	750630 40	750668 40	750708 90	750599 60	750649 50	750398 20	750598 30	750357 90	750622 10	750742 30	750640 00	750607 80	750524 50	750503 10	750662 60	750589 90	750660 20	750660 20	750660 20	750563 80	750701 80	750748 30
roup 000-1	Easting	2085319 50	2085330 10	2085254 10	2085695 30	208601180	2085444 40	2085879 70	2085884 50	2085940 50	2086003 60	2086073 80	2085450 20	2085516 80	2085950 00	2085457 40	2085633 50	2085945 10	2086008 20	2085387 30	2085951 20	2085455 00	2085821 50	2085826 20	2085695 30	2085695 30	2085695 30	208601180	2085879 70	2085254 10
IHSS G	Location	CM46-002	CM45-001	CM46-001	CO46-001	CQ46-003	CN46-000	CP46-003	CP46-002	CQ46-001	CQ46-005	CQ46-006	CN46-001	CN45-001	CQ46-002	CN44-000	CO46-000	CQ46-000	CQ46-004	CN46-002	CQ45-000	CN45-000	CP46-000	CP46-001	CO46-001	CO46-001	CO46-001	CQ46-003	CP46-003	CM46-001
!	IHSS	921 006	900-176	900-176	900-165	900-165	921-006	\$91-006	591-006	900 165	\$91-006	900-165	900-176	921-006	900-165	921-006	591-006	591-006	591-006	900-176	900-165	921-006	900-165	\$91-006	900-165	\$91-006	900-165	591-006	900-165	900-176

		8)	89	g)	gy	S)	96	50	80	89	g)	86	80	50	90	89	90	90	99	35	99	9¢	90	<u>a</u>	50	36	56	90	30	80
L		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg																			
	Background Mean+2SD	N/A	N/A	N/A	N/A	N/A	A/N	A/N	A/N	N/A	N/A	N/A	N/A	N/A	ΥX	N/A	N/A	N/A	N/A	N/A	N/A	A/Z	A/X	A/N	ΥX	A/N	A/N	A/X	N/A	ΑN
	Tier II Action Background Level Mean+2SD	N/A	A/N	N/A	A/A	N/A	V/A	V/A	V/A	V/A	V/A	V/V	A/A	A/N	A/N	A/A	A/A	N/A	A/A	A/N	A/A									
	Tier I Action Level	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																			
	Reporting Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Result	00 0061	00 0061	00 0061	00 0061	00 0061	00 0061	1900 00	00 0061	1900 00	2000 00	2000 00	2000 00	2100 00	2100 00	2100 00	2100 00	2200 00	2200 00	2300 00	2300 00	2100 00	2600 00	2700 00	2700 00	2800 00	2800 00	2800 00	2900 00	3000 00
	Depth End ((eet)	0	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0	0	0.5	0	0	0	0	0.5	0.5	0.5	0.5	0.5	0	0.5	0.5	0	0.5	0.5	0	0
	Depth Start (feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Analyte	2-Fluorobiphenyl	2-Fluorobiphenyi	2-Fluorobiphenyl	2-Fluorobiphenyl	2-Fluorobiphenyl	2-Fluorobiphenyl	2-Fluorobiphenyl	O-Fluorophenol																					
	Northing	750607 80	750722 10	750630 40	750668 40	750742 30	750598 30	750524 50	750708 90	750599 60	750502 20	750398 20	750640 00		750649 50	750503 10	750357 90	750622 10						750701 80	750630 40	750398 20		750599 60		750699 70
	Easting	2085387 30	2085444 40	2085884 50	2085940 50	2085945 10	2085950 00	2085951 20	2086003 60	2086073 80	2085330 10	2085516 80	2086008 20	2085319 50	2085450 20	2085455 00	2085457 40	2082633 50	2082695 30	2085821 50	2085826 20	208601180	2085254 10	2085879 70	2085884 50	2085516 80	2086003 60	2086073 80	2085387 30	2085319 50
	Location	CN46-002	CN46-000	CP46-002	CQ46-001	CQ46-000	CQ46-002	CQ45-000	CQ46-005	CQ46-006	CM45-001	CN45-001	CQ46-004	CM46-002	CN46-001	CN45-000	CN44-000	CO46-000	CO46-001	CP46-000	CP46-001	CQ46-003	CM46-001	CP46-003	CP46-002	CN45-001	CQ46-005	CQ46-006	CN46-002	CM46-002
	IHSS	9/1-006	900-176	591-006	591-006	900-165	900-165	900-165	900-165	900-165	900-176	921-006	900-165	921-006	921-006	900-176	921-006	\$91-006	591-006	\$91-006	\$91-006	900-165	921-006	900-165	900-165	921-006	900-165	900-165	900-176	921-006

3	
<u>e</u>	
三	
্র	
⊢	

III Jana Alam West Soli Mestres Citation in
Northing Analyte
R
750722 10 O-Fluoropheno
750668 40 O-Fluoropheno
750742 30 O-Fluorophenol
750598 30 O-Fluorophenol
750524 50 O-Fluorophenol
750640 00 O-Fluoropheno
750357 90 O-Fluorophenol
750503 10 O-Fluorophenol
750622 10 O-Fluoropheno
750660 20 O-Fluorophenol
750748 30 Nitrobenzene-D5
750398 20 Nitrobenzene
750708 90 Nitrobenzer
750502 20 Nitrobenzen
750524 50 Nitrobenzene-D5
750742 30 Nitrobenzene-D5

3	
<u>و</u>	
٩	
2	

	Unit		a)	90	96	50	50	où.	50	Э¢.	zie	54	36	90	90	50	50	, se	500	90	90	90	90	90	90	90	en.	90	90	96	50
	<u> </u>		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ugAg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
nits	Backgroun	MEMITA	N/A	ΑΝ	ΝΑ	A/X	A/N	N/A	A/A	N/A	Y/X	V/N	A/N	A/N	A/N	V/A	A/N	ΑΝ	A/N	Ϋ́	ΑΝ	A/N	N/A	A/X	V/A	A/N	ΑN	A/N	A/N	A/N	N/A
han Background Mean Plus Two Standard Deviations or Reporting Limits	Tier II Action Background	Levei	N/A	N/A	N/A	N/A	Α/X	N/A	N/A	N/A	V/A	W/A	N/A	N/A	V/A	V/N	V/N	N/A	V/A	N/A	N/A	N/A	V/A	W/A	V/N	V/V	V/A	V/A	V/A	V/N	N/A
iations or R	Tier I Action	Level	N/A	Α/X	N/A	N/A	A/X	A/X	A/A	N/A	N/A	N/A	N/A	N/A	A/A	N/A															
ndard Dev	Reporting		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
us Two Star	Result		2200 00	2300 00	2300 00	2300 00	2400 00	2400 00	2500 00	2600 00	2200 00	2700 00	2800 00	2800 00	2800 00	2900 00	2900 00	3000 00	3000 00	3000 00	3000 00	3000 00	3000 00	3100 00	3100 00	3100 00	3200 00	3200 00	3200 00	3300 00	3300 00
Mean Pl	Depth	(feet)	50	0	0.5	0.5	0	0	0.5	0.5	5.0	0.5	o	0.5	0.5	0	90	0	0	0	0.5	0.5	0.5	0	0.5	0.5	0	0.5	0.5	0	0
round !	Depth	(feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	0	0	0	0	0	0	0	0	0
Greater than Backg	Analyte		Nitrobenzene-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5	Phenol-D5							
Soil Results	Northing		750640 00	750649 50	750622 10	750660 20			750662 60	750589 90	750563 80	750701 80	750748 30	750708 90	750599 60	750398 20	750630 40	750699 70	750607 80	750722 10	750668 40	750598 30	750640 00	750502 20	750742 30	750524 50	750503 10	750622 10	750660 20	750649 50	750357 90
IHSS Group 000-1 Soil Results Greater t	Easting		2086008 20	2085450 20	2085633 50	2085695 30	2085455 00	2085457 40	2085821 50	2082826 20	208601180	2085879 70	2085254 10	2086003 60	2086073 80	2085516 80	2085884 50	2085319 50	2085387 30	2085444 40	2085940 50	2085950 00	2086008 20	2085330 10	2085945 10	2085951 20	2085455 00	2085633.50	2085695 30	2085450 20	2085457 40
HSS G	Location		CQ46-004	CN46-001	CO46-000	CO46-001	CN45-000	CN44-000	CP46-000	CP46-001	CQ46-003	CP46-003	CM46-001	CQ46-005	CQ46-006	CN45-001	CP46-002	CM46-002	CN46-002	CN46-000	CQ46-001	CQ46-002	CQ46-004	CM45-001	CQ46-000	CQ45-000	CN45-000	CO46-000	CO46-001	CN46-001	CN44-000
i	IHSS		900-165	921-006	591-006	900-165	921-006	9/1-006	900-165	591-006	900-165	900-165	900-176	591-006	591-006	900-176	591-006	921-006	900-176	9/11-006	900-165	900-165	591-006	900-176	591-006	900-165	9/1-006	900-165	900-165	900-176	900-176

	00111	1 000	Joil Doculte	Trice Committee Creater than Background Mean Plus Two Standard Deviations or Reporting Limits	round N	Jean Ph	us Two Star	idard Devi	iations or Re	eporting Lin	nits	
	IHSS G	roup dno-1	Soli Results	Greater than Dach		Penth	Doenit	Reporting	Tier I Action	Tier II Action Background	Background	Unit
SSHI	Location	Easting	Northing	Analyte	Start	End		Limit	Level	Level	Mean+2SD	
		00.00000	07 (2703)	Dhand DK	0	0.5	3500 00	0	ΝΆ	A/X	N/A	ug/kg
900-165	CP46-000	2082821 50	750002 00	Picarol DK		0.5	3700 00	0	N/A	N/A	N/A	ug/kg
591-006	CP46-001	2083826 20	05 69 60 60	richol-D.	,	0.5	750 00	710	61400	614	Y/Z	ug/kg
900-165	CO46-001	2085695 30	/20000 20	Denzo(A)ryrene	,	3	750.00	710	614000	6140	N/A	ug/kg
900-165	CO46-001	2085695 30	750660 20	Benzo(A)Anthracene		50	1970000	2500	576000	876000	18037 00	mg/kg
\$91-006	CP46-002	2085884 50	750630 40	lron		S	0000010	2500	\$76000	576000	18037 00	mg/kg
900-165	CQ46-005	2086003 60	750708 90	Iron	0	3	0000017	2500	\$76000	000925	18017 00	mg/kg
900-165	CQ46-002	2085950 00	750598 30	lron	0	co	21/00/00	2600	000913	000925		me/kg
900-165	CQ45-000	2085951 20	750524 50	Iron	0	0.5	75900 00	2300	000016	276000		molko
\$91-006	CO46-001	2085940 50	750668 40	lron	0	0.5	25300 00	2500	2/6000	370000	19077 00	9.0
900-165	CO46-006	2086073 80	750599 60	Iron	0	0.5	26500 00	2500	276000	0009/5	1807.00	III WAS
900-165	CO46-000	2085633 50	750622 10	Iron	0	0.5	27300 00	2500	276000	2/6000	18037 00	III WAS
900-165	CO46-001	2085695 30	750660 20	Iron	0	0.5	27300 00	2500	276000	2/6000	18037 00	III SAR
321	CM45.001	2085330 10	750502 20	Iron	0	0	27700 00	2500	276000	276000	18037 00	mg/kg
0/1-00	CO46 003	2086011.80	750563 80	Iron	0	0.5	28300 00	2500	226000	276000	18037 00	mg/kg
CO1-006	200-04-00	05 1160007	750662 60	lron	0	0.5	28400 00	2500	000925	000925	18017 00	mg/kg
CO1-006	Cr46-000	2082321 20	750722 10	Iron	0	0	29000 00	2500	276000	276000	18037 00	mg/kg
0/1-00	CIN40-000	2085387 30	750607 80	lion	0	0	29300 00	2500	876000	276000	18037 00	mg/kg
0/1-006	CIN40-002	00 1955900	750701 80	loo.	0	0.5	29500 00	2500	276000	276000	18017 00	mg/kg
col-nox	CF40-003	0/ 6/9097	750640.00	ua.	0	0.5	29700 00	2500	876000	276000	18037 00	mg/kg
col-006	500-004	200621460	750020 10	ion i	0	0	30400 00	2500	\$76000	\$76000	18037 00	mg/kg
101-000	CM47-003	2005014 10	750742 30	i i	0	0.5	30700 00	2500	276000	276000	18037 00	mg/kg
CO1-006	200-04-73	200221010	750788 20	Jean	0	0	31000 00	2500	22000	276000	18037 00	mg/kg
000	CM47-004	2083314 00	75000000	Im	- c	0.5	31400 00	2500	276000	676000	18037 00	mg/kg
900-1310	CM47-001	2085234 21	750699 92	Ima	, -	0.5	31400 00	2500	576000	876000	18037 00	mg/kg
900-165	CP46-001	2082820 20	05 49 20	Inch	c	0	33100 00	2500	\$76000	000925	18037 00	mg/kg
900-176	CM46-001	2085254 10	750075 40	Iron	, c	0	33400 00	2500	\$76000	\$76000	18037 00	mg/kg
000	CN47-001	208237330	750206 20	Ilon	-	0	34000 00	2500	276000	976000	18037 00	mg/kg
900-176	CN45-001	2083316 80	730396 20	Inom	,	6	35000 00	2500	876000	276000	18037 00	mg/kg
900-176	CN46-001	2085450 20	/30049.30	Iron	,	0	35100 00	2500	876000	000925	18037 00	mg/kg
101-000	CN47-000	2085374 20	750859 30	Iron	,	,						

THES I AM												
	Location	Easting	Northing	Analyte	Depth	Depth	Result	Reporting Limit	Tier I Action	Tier II Action Background	Background Mean+2SD	Unit
					(feet)	(feet)			134377	2		
	CM48-008	2085305 10	751001 60	uon	0	0	35500 00	2500	276000	276000	18037 00	mg/kg
900-176 CN4	CN45-000	2085455 00	750503 10	Iron	0	0	38300 00	2500	\$76000	\$76000	18037 00	mg/kg
000-101 CN4	CN48-000	2085369 50	750968 40	Iron	0	0	39600 00	2500	576000	576000	18037 00	mg/kg
900-176 CN4	CN44-000	2085457 40	750357 90	Iron	0	0	41400 00	2500	576000	\$76000	18037 00	mg/kg
	CN47-001	2085375 30	750825 60	Lead	0	0	56 20	20	1000	0001	54 62	mg/kg
900-165 CO40	CO46-001	2085695 30	750660 20	Lead	0	0.5	63 20	20	1000	0001	54 62	mg/kg
900-176 CN4	CN46-000	2085444 40	750722 10	Lead	0	0	09 89	20	0001	0001	54 62	mg/kg
900-176 CN4	CN46-000	2085444 40	750722 10	Lead	0	0	09 89	20	1000	0001	54 62	mg/kg
	CM45-001	2085330 10	750502 20	Lead	0	0	75 10	20	1000	1000	54 62	mg/kg
900-176 CM4	CM45-001	2085330 10	750502 20	Lead	0	0	75 10	20	1000	0001	54 62	mg/kg
900-176 CN4	CN45-000	2085455 00	750503 10	Lead	0	0	92 70	20	0001	0001	54 62	mg/kg
900-176 CM4	CM46-001	2085254 10	750748 30	Lead	0	0	236 00	20	0001	0001	54 62	mg/kg
-	CQ46-001	2085940 50		Manganese	0	90	436 00	200	83600	83600	365 08	mg/kg
	CN48-000	2085369 50		Manganese	0	0	452 00	200	83600	83600	365 08	mg/kg
900-176 CN4	CN46-000	2085444 40	750722 10	Manganese	0	0	453 00	200	83600	83600	365 08	mg/kg
900-165 CO4	CO46-001	2085695 30	750660 20	Manganese	0	0.5	473 00	200	83600	83600	365 08	mg/kg
900-165 CP40	CP46-000	2085821 50		Manganese	0	0.5	476 00	200	83600	83600	365 08	mg/kg
_	CN45-001	2085516 80	750398 20	Manganese	0	0	480 00	200	83600	83600	365 08	mg/kg
900-165 CP40	CP46-003	2085879 70	750701 80	Manganese	0	0.5	480 00	200	83600	83600	365 08	mg/kg
900-176 CN4	CN46-001	2085450 20	750649 50	Manganese	0	0	485 00	200	83600	83600	365 08	mg/kg
	CQ46-003	208601180		Manganese	0	0.5	499 00	200	009£8	83600	365 08	mg/kg
900-165 CP40	CP46-002	2085884 50	750630 40	Manganese	0	0.5	00 90\$	200	83600	83600	365 08	mg/kg
000-101 CN4	CN47-000	2085374 20		Manganese	0	0	00 115	200	009£8	83600	365 08	mg/kg
000-101 CM4	CM48-008	2085305 10	75100160	Manganese	0	0	00 815	200	00988	83600	365 08	mg/kg
	CM46-001	2085254 10	750748 30	Manganese	0	0	525 00	200	83600	83600	365 08	mg/kg
900-165 CQ4	CQ46-004	2086008 20	750640 00	Manganese	0	0.5	534 00	200	83600	83600	365 08	mg/kg
900-165 CQ4	CQ46-000	2085945 10	750742 30	Manganese	0	0.5	237 00	200	83600	83600	365 08	mg/kg
000-101 CM4	CM47-004	2085314 60	750788 20	Manganese	0	0	243 00	200	009£8	83600	30 598	mg/kg
900-165 CO4	CO46-000	2085633 50	750622 10	Manganese	0	50	00 155	200	009£8	83600	365 08	mg/kg

	Unit	mg/kg	mg/kg	тв/кв	mg/kg																									
nits	Background Mean+2SD	365 08	365 08	४० ५ १६	365 08	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491	1491
porting Lin	Tier II Action Background Level Mean+2SD	83600	83600	83600	83600	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400
an Background Mean Plus Two Standard Deviations or Reporting Limits	Tier I Action Level	83600	83600	83600	83600	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400
ndard Devi	Reporting Limit	200	200	200	200	9	98	9	9	9	09	09	09	09	09	09	8	98	98	09	09	_ 09	09	09	09	98	09	09	09	09
is Two Star	Result	579 00	621 00	637 00	00 989	20 90	20 90	27 40	29 20	30 50	32 10	33.40	34 10	35 00	35 50	35.70	36 40	37 60	38 00	38 10	39 30	39 80	39 80	40 00	40 70	41 40	41 50	42 20	42 60	43 10
Mean Ph	Depth End (feet)	0	0	0	0	0	0	0.5	50	0.5	50	0.5	\$0	\$0	\$0	50	0.5	0	0	\$0	\$0	0	0	0	0	0	0	0	0	0.5
ground !	Depth Start (feet)	0	0	0	0	0	٥	٥	٥	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0
Greater than Back	Analyte	Manganese	Manganese	Manganese	Manganese	Nickel	Nickel	Nickel	Nickel	Nickel	Nickel	Nickel	Nickel	Nickel	Nickel	Nickel	Nickel													
oil Results	Northing	750503 10	750502 20	750607 80	750357 90	750699 70	750699 70	750708 90	750598 30	750524 50	750701 80	750622 10	750640 00	750630 40	750599 60	750668 40	750662 60	750502 20	750722 10	750563 80	750589 90	750825 60	750825 60	750649 50	750607 80	750357 90	750398 20	750788 20	750503 10	750742 30
IHSS Group 000-1 Soil Results Greater th	Easting	2085455 00	2085330 10	2085387 30	2085457 40	2085319 50	2085319 50	2086003 60	2085950 00	2085951 20	2085879 70	2085633 50	2086008 20	2085884 50	2086073 80	2085940 50	2085821 50	2085330 10	2085444 40	208601180	2085826 20	2085375 30	2085375 30	2085450 20	2085387 30	2085457 40	2085516 80	2085314 60	2085455 00	2085945 10
IHSS G1	Location	CN45-000	CM45-001	CN46-002	CN44-000	CM46-002	CM46-002	CQ46-005	CQ46-002	CQ45-000	CP46-003	CO46-000	CQ46-004	CP46-002	CQ46-006	CQ46-001	CP46-000	CM45-001	CN46-000	CQ46-003	CP46-001	CN47-001	CN47-001	CN46-001	CN46-002	CN44-000	CN45-001	CM47-004	CN45-000	CQ46-000
	SSHI	900-176	921-006	921-006	921-006	900-176	900-176	900-165	900-165	900-165	900-165	900-165	900-165	900-165	900-165	900-165	900-165	900-176	900-176	900-165	900-165	101-000	101-000	900-176	900-176	900-176	9/1-006	101-000	900-176	900-165

5	İ
ટ્ટ	İ
a	ļ
20	ļ
S	١
SSF	l
Ξ	
;	١
ŏ	İ
Rep	ĺ
2	I
ma	
TI.	١
3	۱

		Ļ
	S	l
	imi	
	gL	
	rtin	l
	oda	
	r R	
)S 0	l
	tion	
	evia	ŀ
	d D	l
	dar	
	tan	ŀ
	Vo S	
	TV	
	Plus	ŀ
~	an	
able 3	eater than Background Mean Plus Two Standard Deviations or Reporting	
Tal	pun	
	gro	Ļ
	ack	
	ın B	
	tha	
	ater	
	Gre	
	Its (
	esu	
	il R	
	1 Sc	L
	8	l
) dn	
	Gro	
	HSS Gr	
	IH	
		ı

T 41	- T- T- C	W 4.1. 1	A A	17.7		71		T. A. A. T.	TO A 11	-	11-14
Location	Lasung	Northing	Analyte	Start	End	Kesnit	Keporung Limit	Level	Level Mean+2SD	Dackground Mean+2SD	
				(feet)	(feet)						
CM46-001	2085254 10	750748 30	Nickel	0	0	46 90	9	38400	38400	14 91	mg/kg
CN47-000	2085174 20	750899 30	Nickel	0	0	47 20	95	38400	18400	161	mg/kg
CO46-001	2085695 30	750660 20	Nickel	0	0.5	47.30	36	38400	18400	1491	mg/kg
CM48-008	2085305 10	751001 60	Nickel	0	0	48 60	09	38400	38400	1491	mg/kg
CM47-003	2085314 60	750929 10	Nickel	0	0	49 60	98	38400	18400	14 91	mg/kg
CQ45-000	2085951 20	750524 50	Potassium	0	0.5	15500 00	\$000	N/A	N/A	2967 20	mg/kg
CP46-002	2085884 50	750630 40	Potassium	0	0.5	16200 00	2000	A/A	A/X	2967 20	mg/kg
CQ46-002	2085950 00	750598 30	Potassium	0	0.5	17000 00	\$000	Y/A	A/X	2967 20	mg/kg
CQ46-001	2085940 50	750668 40	Potassium	0	0.5	17200 00	2000	N/A	N/A	2967 20	mg/kg
CQ46-000	2085945 10	750742 30	Potassium	0	0.5	17200 00	2000	N/A	N/A	2967 20	mg/kg
CQ46-005	2086003 60	750708 90	Potassium	0	0.5	17300 000	2000	N/A	N/A	2967 20	mg/kg
CQ46-006	2086073 80	750599 60	Potassium	0	0.5	17800 00	2000	N/A	A/A	2967 20	mg/kg
CP46-001	2085826 20	750589 90	Potassium	0	0.5	18600 00	2000	N/A	N/A	2967 20	mg/kg
CM46-001	2085254 10	750748 30	Potassium	0	0	00 00061	2000	N/A	N/A	2967 20	mg/kg
CQ46-003	208601180	750563 80	Potassium	0	0.5	19200 00	2000	N/A	A/A	2967 20	mg/kg
CQ46-004	2086008 20	750640 00	Potassium	0	0.5	22100 00	2000	N/A	A/A	2967 20	mg/kg
CP46-000	2085821 50	750662 60	Potassium	0	0.5	22700 00	2000	N/A	N/A	2967 20	mg/kg
CM48-008	2085305 10	751001 60	Potassium	0	0	22900 00	\$000	N/A	N/A	2967 20	mg/kg
CP46-003	2085879 70	750701 80	Potassium	0	0.5	23100 00	2000	N/A	N/A	2967 20	mg/kg
CM45-001	2085330 10	750502 20	Potassium	Ó	0	23500 00	2000	N/A	A/X	2967 20	mg/kg
CN45-001	2085516 80	750398 20	Potassium	0	0	24100 00	2000	N/A	N/A	2967 20	mg/kg
CN46-002	2085387 30	750607 80	Potassium	0	0	24200 00	2000	N/A	N/A	2967 20	mg/kg
CM47-004	2085314 60	750788 20	Potassium	0	0	24600 00	2000	N/A	N/A	2967 20	mg/kg
CN46-000	2085444 40	750722 10	Potassium	0	0	25600 00	2000	N/A	V/A	2967 20	mg/kg
CO46-000	2085633 50	750622 10	Potassium	0	0.5	25800 00	2000	N/A	N/A	2967 20	mg/kg
CN44-000	2085457 40	750357 90	Potassium	0	0	26100 00	2000	N/A	N/A	2967 20	mg/kg
CO46-001	2085695 30	750660 20	Potassium	0	0.5	26300 00	2000	N/A	N/A	2967 20	mg/kg
CN45-000	2085455 00	750503 10	Potassium	0	0	29300 00	2000	N/A	N/A	2967 20	mg/kg
CN47-001	2085375 30	750825 60	Pofassium	٥	•	3050000	0005	A17.4	4/34	00000	

ϫ	1
8	ŧ
	ı
0	ı
IHSS Group	
3	ı
~	ŧ
\sim	1
~	ı
-	ı
\smile	ı
_	ł
\sim	ı
-,	1
\sim	ł
_	ł
J	ı
_	1
_	
	1
•	ŧ
•	1
-	ı
=	1
0	1
Č	ł
~	4
Report	
~	ı
~	1
_	1
>	J
_	1
ummary	4
J	1
~	
2	1
Ē	4
~	1
=	1
-3	1
_	. 1

国

1111		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
its	Dackground Mean+2SD	2967 20 m	2967 20 m	48 94 m	48 94 m	48 94 m			\neg		\neg														48 94	48 64	48 94			48 94
han Background Mean Plus Two Standard Deviations or Reporting Limits	Level Mean+2SD	A/A	N/A	0000001	0000001	0000001	1000000	0000001	0000001	1000000	1000000	0000001	0000001	0000001	1000000	1000000	0000001	1000000	1000000	0000001	0000001	1000000	0000001	1000000	1000000	0000001	1000000	1000000	1000000	1000000
ations or Re	Tier I Action Level	N/A	N/A	0000001	1000000	1000000	1000000	0000001	1000000	0000001	1000000	1000000	0000001	1000000	0000001	0000001	1000000	1000000	0000001	1000000	1000000	1000000	0000001	1000000	1000000	0000001	0000001	0000001	1000000	0000001
ndard Devi	Reporting Limit	2000	2000	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250
is Two Star	Result	30800 00	33000 00	104 00	108 00	114 00	00 611	129 00	133 00	167 00	00 621	179 00	192 00	194 00	204 00	205 00	207 00	209 00	214 00	217 00	222 00	229 00	230 00	230 00	242 00	251 00	261 00	261 00	294 00	307 00
Iean Plu	Depth End	0	0	0.5	0.5	0.5	0.5	0.5	\$0	0.5	0	50	0	0.5	0	0	0.5	0	0	0.5	0	0.5	0	0	0	50	0	0	0	0
round M	Depth Start	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Freater than Backg	Analyte	Potassium	Potassium	Strontium	Strontium	Stronttum	Strontium	Strontium	Strontium	Strontium	Strontium	Strontrum	Strontium	Strontium	Strontrum	Strontium														
oil Results (Northing	750649 50	T			T	T		750524 50	750742 30	750968 40	750589 90	751001 60	750662 60	750929 10	750899 30	750622 10	750607 80	750357 90	750701 80	750502 20	750660 20	750748 30	750398 20	750788 20	750640 00	750825 60	750503 10	750722 10	750699 70
IHSS Group 000-1 Soil Results Greater t	Easting	2085450 20	2085310 50	09 600300	2085884 50	2085950.00	2085940 50	2086073 80	2085951 20	2085945 10	2085369 50	2085826 20	2085305 10	2085821 50	2085314 60	2085374 20	2085633 50	2085387 30	2085457 40	2085879 70	2085330 10	2085695 30	2085254 10	2085516 80	2085314 60	2086008 20	2085375 30	2085455 00	2085444 40	2085319 50
IHSS Gr	Location	CNAK.001	C1446 000	CM46-002	CD46-000	CO46-002	100-99-00	CO46-006	CO45-000	CO46-000	CN48-000	CP46-001	CM48-008	CP46-000	CM47 003	CN47 000	CO46-000	CN46-002	CN44-000	CP46-003	CM45-001	CO46-001	CM46-001	CN45-001	CM47-004	COAKONA	CN47-001	CN45-000	CN46-000	CM46-002
	SSHI	371 000	200-176	2/1-000	391,000	291.000	900-165	591-006	900-165	900-165	1000-101	900 165	101-000	900-165	101-000	101,000	900-165	900-176	921 000	900-165	900-176	900-165	921-000	971.00	101	27 000	51.00	72.00	321.000	900-176

	D SCHI	roup um-1	Soll Results	THOS Group two-1 soil Results Greater than Background Mean Flus I wo Standard Deviations of Reporting Limits	TOUIS 1	Vicali i i	us I wo sta	ומשוח הבי	Idilons of In	בותו וחוול דיוני	2311	
IHSS	Location	Easting	Northing	Analyte	Start (feet)	Sept.	Result	Reporting Limit	Tier I Action Level	Tier II Action Background Level Mean+2SD	Background Mean+2SD	Unit
900-176	CN46-001	2085450 20	750649 50	Strontium	0	0	314 00	250	0000001	1000000	48 94	mg/kg
\$91-006	CQ46-003	208601180	750563 80	Strontium	0	0.5	483 00	250	100000	1000000	48 94	mg/kg
900-165	CQ45-000	2085951 20	750524 50	Arsenic	0	0.5	01 01	25	299	2 99	60 01	mg/kg
900-176	CN46-001	2085450 20	750649 50	Arsenic	0	0	10 20	25	299	2 99	60 01	mg/kg
900-176	CN46-001	2085450 20	750649 50	Arsenic	0	0	10 20	25	299	2 99	60 01	mg/kg
900-165	CQ46-005	2086003 60	750708 90	Arsenic	0	0.5	10 30	25	299	2 99	60 01	mg/kg
101-000	CN47-001	2085375 30	750825 60	Arsenic	0	0	10 50	25	299	2 99	60 01	mg/kg
900-165	CQ46-003	208601180	750563 80	Arsenic	0	0.5	10 90	25	299	2 99	60 01	mg/kg
900-165	CQ46-002	2085950 00	750598 30	Arsenic	0	0.5	11 40	25	299	2 99	10 09	mg/kg
591-006	CO46-000	2085633 50	750622 10	Arsenic	0	0.5	11 80	25	299	2 99	60 01	mg/kg
921-006	CN44-000	2085457 40	750357 90	Arsenic	0	0	06 11	25	299	2 99	6001	mg/kg
101-000	CM47 003	2085314 60	750929 10	Arsenic	0	0	12 00	25	299	2 99	60 01	mg/kg
9/1-006	CN46-002	2085387 30	08 209052	Arsenic	0	0	12 00	25	299	2 99	60 01	mg/kg
591-006	CP46-000	2085821 50	750662 60	Arsenic	0	0.5	12 40	25	299	2 99	60 01	mg/kg
921-006	CN45-001	2085516 80		Arsenic	0	0	13 10	25	299	2 99	60 01	mg/kg
591-006	CP46-001	2085826 20	750589 90	Arsenic	0	0.5	13 90	25	299	2 99	60 01	mg/kg
921-006	CM46-001	2085254 10	750748 30	Arsenic	0	0	15 60	25	299	2 99	60 01	mg/kg
101-000	CN47-000	2085374 20		Arsenic	0	0	16 00	25	299	2 99	60 01	mg/kg
921-006	CM46-002	2085319 50		Arsenic	0	0	18 90	25	299	2 99	60 01	mg/kg
921-006	CM46-002	2085319 50	01 669051	Arsenic	0	0	06 81	25	299	2 99	10 09	mg/kg
101-000	CM48-008	2085305 10		Arsenic	0	0	19 30	25	299	2 99	60 01	mg/kg
900-165	CQ45-000	2085951 20		Вапит	0	0.5	537 00	051	133000	133000	141 26	mg/kg
900-165	CQ46-000	2085945 10	750742 30	Banum	0	\$0	548 00	051	000881	133000	141 26	mg/kg
591-006	CP46-002	2085884 50		Banum	0	0.5	280 00	150	133000	133000	141 26	mg/kg
900-165	CP46-001	2085826 20		Валит	0	0.5	622 00	051	133000	133000	141 26	mg/kg
900-165	CQ46-002	2085950 00	0£ 86\$0\$ <i>L</i>	Barıum	0	0.5	632 00	150	133000	133000	141 26	mg/kg
900-165	CQ46-005	2086003 60		Вапит	0	0.5	639 00	150	133000	133000	141 26	mg/kg
921-006	CM46-002	2085319 50		Валит	0	0	655 00	150	133000	133000	141 26	mg/kg
921-006	CM46-001	2085254 10	750748 30	Barrum	0	0	00 999	150	133000	133000	141 26	mg/kg

| | | | | | | | | |
 | | | _ | | | |
 | |
 |

 | | | | |
 | | | | | |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Umt | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg
 | mg/kg | mg/kg | ıng/kg | mg/kg | mg/kg | mg/kg | mg/kg
 | mg/kg | mg/kg
 | mg/kg

 | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg
 | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Background
Mean+2SD | 141 26 | 141 26 | 141 26 | 141 26 | 141 26 | 141 26 | 141 26 | 141 26 | 141 26
 | 141 26 | 141 26 | 141 26 | 141 26 | 141 26 | 141 26 | 141 26
 | 141 26 | 141 26
 | 191

 | 191 | 191 | 191 | 191 | 191
 | 191 | 66 91 | 16 99 | 16 99 | 66 91 |
| Tier II Action
Level | 133000 | 133000 | 133000 | 133000 | 133000 | 133000 | 133000 | 133000 | 133000
 | 133000 | 133000 | 133000 | 133000 | 133000 | 133000 | 133000
 | 133000 | 133000
 | 1920

 | 1920 | 1920 | 1920 | 1920 | 1920
 | 1920 | 4410 | 4410 | 4410 | 0144 |
| Tier I Action
Level | 133000 | 133000 | 133000 | 133000 | 133000 | 133000 | 133000 | 133000 | 133000
 | 133000 | 133000 | 133000 | 133000 | 133000 | 133000 | 133000
 | 133000 | 133000
 | 1920

 | 1920 | 1920 | 1920 | 1920 | 1920
 | 1920 | 441000 | 441000 | 441000 | 441000 |
| Reporting
Limt | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150
 | 150 | 150 | 150 | 150 | 150 | 150 | 150
 | 150 | 150
 | 85

 | 85 | 85 | 88 | 88 | 85
 | 85 | 06 | 8 | 96 | 06 |
| Result | 00 899 | 00 129 | 00 189 | 00 169 | 727 00 | 745 00 | 748 00 | 760 00 | 798 (X)
 | 800 00 | 805 00 | 823 00 | 823 00 | 825 00 | 832 00 | 843 00
 | 00 116 | 1050 00
 | 193

 | 4 19 | 441 | 603 | 299 | 8 36
 | 41 40 | 21 00 | 27 60 | 28 30 | 28 80 |
| Depth
End | 50 | 0.5 | 0 | 0 | 0.5 | 0 | 0.5 | 0 | 50
 | 0 | 0.5 | 0 | 0.5 | 0 | 0.5 | 0
 | 0 | 0
 | 0.5

 | 0.5 | 0.5 | 0 | 0 | 0
 | 0 | 0.5 | 0 | 0.5 | 0 |
| Depth
Start
(feet) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0 | 0 | 0
 | 0 | 0
 | 0

 | 0 | 0 | 0 | 0 | 0
 | 0 | 0 | 0 | 0 | 0 |
| Analyte | Barrum | Banum | Barrum | Banum | Barrum | Вапит | Barıum | Banum | Banum
 | Barıum | Barrum | Вапит | Вапит | Barnum | Вапит | Barrum
 | Вапит | Barum
 | Cadmum

 | Cadmium | Cadmium | Cadmium | Cadmium | Cadmium
 | Cadmium | Chromum | Chromium | Chromum | Chromum |
| Northing | 750668 40 | 750599 60 | 751001 60 | 750968 40 | 750640 00 | 750357 90 | 750662 60 | 750398 20 | 750660 20
 | 750899 30 | 750701 80 | 750607 80 | 750622 10 | 750502 20 | 750563 80 | 750722 10
 | 750503 10 | 750649 50
 | 750662 60

 | 750660 20 | 750622 10 | 750502 20 | 750722 10 | 750503
10 | 750748 30 | 750630 40 | 750607 80 | 750640 00 | 751001 60 |
| Easting | 2085940 50 | 2086073 80 | 2085305 10 | 2085369 50 | 2086008 20 | 2085457 40 | 2085821 50 | 2085516 80 | 2085695 30
 | 2085374 20 | 2085879 70 | 2085387 30 | 2085633 50 | 2085330 10 | 208601180 | 2085444 40
 | 2085455 00 | 2085450 20
 | 2085821 50

 | 2085695 30 | 2085633 50 | 2085330 10 | 2085444 40 | 2085455
00 | 2085254 10 | 2085884 50 | 2085387 30 | 2086008 20 | 2085305 10 |
| Location | CQ46-001 | CQ46-006 | CM48-008 | CN48-000 | CQ46-004 | CN44-000 | CP46-000 | CN45-001 | CO46-001
 | CN47-000 | CP46-003 | CN46-002 | CO46-000 | CM45-001 | CQ46-003 | CN46-000
 | CN45-000 | CN46-001
 | CP46-000

 | CO46-001 | CO46-000 | CM45-001 | CN46-000 | CN45-000
 | CM46-001 | CP46-002 | CN46-002 | CQ46-004 | CM48-008 |
| IHSS | 900-165 | 900 165 | 101-000 | 101 000 | 900-165 | 900 176 | 900 165 | 900-176 | 900-165
 | 101-000 | 900-165 | 900-176 | 591-006 | 900 176 | 900-165 | 900-176
 | 900-176 | 900 176
 | 900-165

 | 900-165 | 900-165 | 900-176 | 900-176 | 900-176
 | 900-176 | 900-165 | 900-176 | 900-165 | 101-000 |
| | Location Easting Northing Analyte Depth Depth Result Result Reporting Tier I Action Background Start End Limt Level Mean+2SD (feet) (feet) (feet) | Location Easting Northing Analyte Depth Start Depth End Result Reporting Tier I Action The II Action I Background Start Start End Limit Level Level Mean+2SD (feet) (feet) (feet) (feet) (feet) 133000 133000 131000 141 26 m | Location Easting Northing Analyte Depth Start Depth End Result Result Reporting Timit Level Level Mean+2SD CQ46-001 2085940 50 750688 40 Banum 0 0 668 00 150 13000 131000 141 26 m CQ46-006 2086073 80 750599 60 Banum 0 0 5 671 00 150 150 133000 141 26 m | Location Easting Northing Analyte Depth Start Depth End Result Reporting Tier I Action The II Action I Background Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Me | Code-001 Easting Northing Analyte Depth Start Depth End Result Result Ter I Action The II Action I Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2S | Location Easting Northing Analyte Depth Start (feet) End Start (feet) Result (feet) Result (feet) Result (feet) Reporting (feet) Timt (Level) Tevel (Level) Mean+2SD (Mean+2SD (feet)) CQ46-001 2085940 50 750688 40 Banum 0 05 668 00 150 133000 141 26 m CQ46-006 2086073 80 750599 60 Banum 0 05 671 00 150 150 133000 141 26 m CM48-008 2085305 10 75068 40 Banum 0 0 681 00 150 133000 141 26 m CQ46-004 2085365 50 750640 00 Banum 0 0 691 00 150 133000 141 26 m CQ46-004 2086008 20 750640 00 Banum 0 0 691 00 150 133000 141 26 m | Location Easting Northing Analyte Depth Start (feet) Depth Start (feet) Result (feet) Result (feet) Result (feet) Result (feet) Limit (Level) Tevel (Level) Mean+25D (Mean+25D (feet)) Mean+25D (feet) Mean+25D (feet) Mean+25D (feet) Limit (feet) Limit (Level) Level (Level) Mean+25D (feet) Mean+25D | Location Easting Northing Analyte Depth Start (feet) Result (feet) Result Limit Reporting Limit Ter II Action (feet) Mean+2SD (feet) CQ46-001 2085940 50 750688 40 Baruum 0 05 658 00 150 13000 141 26 m CQ46-006 2086073 80 750599 60 Baruum 0 05 671 00 150 13000 141 26 m CM48-008 2085305 10 75068 40 Baruum 0 0 681 00 150 133000 141 26 m CM48-008 2085305 50 750640 00 Baruum 0 0 681 00 150 133000 141 26 m CQ46-004 2085305 50 750640 00 Baruum 0 0 681 00 150 133000 141 26 m CQ46-004 208508 20 750640 00 Baruum 0 0 745 00 150 133000 141 26 m CQ46-004 2085457 40 75056 | 5 Location Easting Northing Analyte Depth Start Depth End Result Result Timut Level Timut Level Level Mean+2SD CQ46-001 2085940 50 750688 40 Baruum 0 0 68 00 150 13000 13100 141 26 m CQ46-006 2085050 50 75068 40 Baruum 0 0 681 00 150 133000 141 26 m CQ46-006 2085305 10 75068 40 Baruum 0 0 681 00 150 133000 141 26 m CQ46-006 2085305 10 750640 00 Baruum 0 0 681 00 150 133000 141 26 m CQ46-004 2085008 20 750640 00 Baruum 0 0 691 00 150 133000 141 26 m CQ46-004 2085457 40 75040 00 Baruum 0 0 745 00 150 133000 131 3000 141 26 | CQ46-001 CQ46-004 Costson Easting Northing Analyte Depth (feet) Result (feet) Result (Limit Lavel) Tere I Action Limit Lavel Tere I Action Limit Lavel Tere I Action Limit Lavel Tevel Limit Lavel Level Lavel Mean+2SD Mean+2SD Mean+2D CQ46-001 2085940 50 750589 60 Baruum 0 0 5 671 00 150 13000 141 26 m CQ46-006 2085305 10 750968 40 Baruum 0 0 681 00 150 13000 141 26 m CM48-000 2085305 10 750968 40 Baruum 0 0 681 00 150 13000 141 26 m CN44-000 208508 20 750968
40 Baruum 0 0 681 00 150 133000 141 26 m CN44-000 2085457 40 750540 00 Baruum 0 0 745 00 150 133000 141 26 m CN44-000 2085457 40 750562 60 Baruum 0 0 745 0 | CQ46-001 Easting Northing Analyte Depth Start Depth End Result Reporting Limit Tier I Action Level Tier II Action Ran+2SD Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level Level L | CO46-001 Easting Northing Analyte Depth Start Depth End Result Result Limit Tevel Level Level Level Level Result Level Level Result Level Result Level Level Result Level Result Level Result Level Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Result Resu | 5 Location Easting Northing Analyte Depth Start Easting Code Result (feet) Result Limit Reporting Limit Tive I Action Limit Tive I Action Limit Tive I Action Limit Tevel Limit Level Limit Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+2SD Mean+ | Code-001 Easting Northing Analyte Depth (feet) Result (feet) Reporting Lavel Tive I Action Lavel Tive I Action Lavel Tive I Action Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel Mean+2SD Lavel | Cocation Easting Northing Analyte Depth (feet) Result (feet) Reporting Limit Tier I Action (feet) Result (feet) Reporting Limit Tier I Action (feet) Mean+2SD CQ46-001 2085340 50 750688 40 Baruum 0 0 681 00 150 133000 141 26 m CQ46-006 2085369 50 75068 40 Baruum 0 0 681 00 150 133000 141 26 m CQ46-006 2085369 50 75068 40 Baruum 0 0 681 00 150 133000 141 26 m CQ46-006 2085369 50 750640 00 Baruum 0 0 681 00 150 133000 141 26 m CQ46-004 208508 50 750640 00 Baruum 0 0 681 00 150 133000 141 26 m CQ46-004 208508 50 750640 00 Baruum 0 0 745 00 150 133000 141 26 m CQ | Coation Easting Northing Analyte Depth (feet) Result Reporting Tivering Tevel Level Mean+25D CQ46-001 2085340 50 750668 40 Banum 0 0 668 60 150 13000 141 26 m/man+25D CQ46-006 2085340 50 750668 40 Banum 0 0 671 00 150 133000 141 26 m/man+25D CQ46-006 2086073 80 75068 40 Banum 0 0 681 00 150 133000 141 26 m/man+25D CQ46-006 2086073 80 75068 40 Banum 0 0 681 00 150 133000 141 26 m/man+25D CQ46-004 208608 20 750640 Banum 0 6 61 00 150 133000 141 26 m/man+25D CQ46-004 208608 20 750400 Banum 0 6 150 133000 141 26 m/man+25D CQ46-004 2088281 50 750580 50 | 5 Location Easting
 Northing Analyte Depth Start (feet) Result (feet) Result (feet) Result (feet) Result (feet) Result (feet) Limit Lavel Level Lavel Mean+25D CCQ46-006 2085396.05 750599 60 Baruum 0 0.5 671 00 150 13000 141 26 m/m CQ46-006 2085395.10 750599 60 Baruum 0 0 681 00 150 133000 141 26 m/m CQ46-004 2085395.10 75004 60 Baruum 0 0 681 00 150 133000 141 26 m/m CQ46-004 2085395.10 75004 60 Baruum 0 0 681 00 150 133000 141 26 m/m CQ46-004 2085395.10 75004 60 Baruum 0 0 744 00 150 133000 141 26 m/m CQ46-004 208549.10 750540 60 Baruum 0 0 745 00 150 133000 141 26 m/m | Code-001 Easting Northing Analyte Depth Depth Result Reporting Tevel Level Level Level Level Mean-250 CQ46-001 2085940 50 75068 40 Banum 0 0 5 671 00 150 13000 141 26 m CQ46-001 2085305 50 75068 40 Banum 0 0 671 00 150 13000 141 26 m CQ46-006 2085305 10 7510016 Banum 0 0 671 00 150 13000 141 26 m CQ46-004 2085305 10 7510016 Banum 0 0 671 00 150 13000 141 26 m CQ46-004 2085305 10 7510016 Banum 0 0 745 00 150 13000 141 26 m CQ44-004 208547 40 750620 0 Banum 0 0 745 00 150 13000 141 26 m CQ46-001 2085516 80 <th>5 Location Easting Northing Analyte Depth (Feb.) Result Reporting Tient I Level Level Level Level Level Level Background Level Level Level Level Level Level Level Level Level Mean-25D CQ446-001 2088540 50 750688 40 Baruum 0 0 68 00 150 13000 141 26 mm CQ46-006 2086073 80 75068 40 Baruum 0 0 68 00 150 133000 141 26 mm CQ46-006 2086373 80 75068 40 Baruum 0 0 68 100 150 133000 141 26 mm CQ46-004 2086373 80 750640 00 Baruum 0 0 745 00 150 133000 141 26 mm CQ46-004 2086373 90 750640 00 Baruum 0 745 00 150 133000 141 26 mm CQ46-004 2086374 00 750650 00 Baruum 0 74 00 150 13000 141 26 <t< th=""><th>CQ46-001 Easting Northing Analyte Depth Depth Result Result Level Level</th><th>COde-Cott Easting Northing Analyte Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth</th><th>CQ46-001 Basting Northing Analyte Depth Sat Result Reporting Date of Lared Lared Lared Lared Sat Sat Sat Sat Sat Sat Sat Sat Sat Sat</th><th>COde-6001 Easting Northing Analyte Depth (Bar) Depth (Bar) Result Reporting International Level Ther II Action International Level Ther II Action International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level Inter</th><th>Chocation Easting Northing Analyte Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth</th><th>CQ46-001 CQ46-002 CQ485-003 CQ485-003 CQ485-003 TS08559 OF TS0859 OF TS0859 CRAPT (REG) CRAPT (REG) TS0850 TS0859 T</th><th>COMEGNIA Easting Northing Analyte Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth
Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth D</th><th>CQ46-COR Easting Northing Analyte Depth Depth Depth Depth Depth Depth Linut Linut Level Level Level Level Level Level Mean+25D CQ46-COR 20853073 80 750599 60 Bamm 0 0 68100 150 133000 14126 m CQ46-COR 2085307 30 750599 60 Bamm 0 0 68100 150 133000 14126 m CQ46-COR 2085307 30 750549 00 Bamm 0 0 68100 150 133000 14126 m CQ46-COR 2085307 10 750540 00 Bamm 0 0 68100 150 133000 14126 m CQ46-COR 208537 10 750540 00 Bamm 0 0 74500 150 133000 14126 m CQ46-COR 208537 10 750540 00 Bamm 0 0 74500 133000 14136</th><th>COCH-GOD Exacting Northing Analyte Depth (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Fe</th><th>CQ46-010 Easting Northing Analyte Depth Perph (febr) Result Result Teverlo Teverlo Teverlo Teverlo Teverlo Leverl Mean+28D Mean+28D CQ46-010 208594-03 3760596 O Barnum 0 0 6710 O 150 130000 1412 O m CQ46-020 2086379 80 75050 60 Barnum 0 0 6710 O 150 130000 1412 O m CQ46-020 2086359 91 Taringo I Barnum 0 0 6710 O 150 130000 1412 O m CQ46-024 2086329 10 75000 O Barnum 0 0 661 O 150 13000 1412 O m CQ46-024 208857 10 75000 O Barnum 0 0 74500 O 150 1412 O m CQ46-024 208857 10 7500 M Barnum 0 0 74600 O 150 1410 O 1410 O CQ46-024<!--</th--></th></t<></th> | 5 Location Easting Northing Analyte Depth (Feb.) Result Reporting Tient I Level Level Level Level Level Level Background Level Level Level Level Level Level Level Level Level Mean-25D CQ446-001 2088540 50 750688 40 Baruum 0 0 68 00 150 13000 141 26 mm CQ46-006 2086073 80 75068 40 Baruum 0 0 68 00 150 133000 141 26 mm CQ46-006 2086373 80 75068 40 Baruum 0 0 68 100 150 133000 141 26 mm CQ46-004 2086373 80 750640 00 Baruum 0 0 745 00 150 133000 141 26 mm CQ46-004 2086373 90 750640 00 Baruum 0 745 00 150 133000 141 26 mm CQ46-004 2086374 00 750650 00 Baruum 0 74 00 150 13000 141 26 <t< th=""><th>CQ46-001 Easting Northing Analyte Depth Depth Result Result Level Level</th><th>COde-Cott Easting Northing Analyte Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth</th><th>CQ46-001 Basting Northing Analyte Depth Sat Result Reporting Date of Lared Lared Lared Lared Sat Sat Sat Sat Sat Sat Sat Sat Sat Sat</th><th>COde-6001 Easting Northing Analyte Depth (Bar) Depth (Bar) Result Reporting International Level Ther II Action International Level Ther II Action International Level International Level International Level International Level International Level
International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level Inter</th><th>Chocation Easting Northing Analyte Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth</th><th>CQ46-001 CQ46-002 CQ485-003 CQ485-003 CQ485-003 TS08559 OF TS0859 OF TS0859 CRAPT (REG) CRAPT (REG) TS0850 TS0859 T</th><th>COMEGNIA Easting Northing Analyte Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth D</th><th>CQ46-COR Easting Northing Analyte Depth Depth Depth Depth Depth Depth Linut Linut Level Level Level Level Level Level Mean+25D CQ46-COR 20853073 80 750599 60 Bamm 0 0 68100 150 133000 14126 m CQ46-COR 2085307 30 750599 60 Bamm 0 0 68100 150 133000 14126 m CQ46-COR 2085307 30 750549 00 Bamm 0 0 68100 150 133000 14126 m CQ46-COR 2085307 10 750540 00 Bamm 0 0 68100 150 133000 14126 m CQ46-COR 208537 10 750540 00 Bamm 0 0 74500 150 133000 14126 m CQ46-COR 208537 10 750540 00 Bamm 0 0 74500 133000 14136</th><th>COCH-GOD Exacting Northing Analyte Depth (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Fe</th><th>CQ46-010 Easting Northing Analyte Depth Perph (febr) Result Result Teverlo Teverlo Teverlo Teverlo Teverlo Leverl Mean+28D Mean+28D CQ46-010 208594-03 3760596 O Barnum 0 0 6710 O 150 130000 1412 O m CQ46-020 2086379 80 75050 60 Barnum 0 0 6710 O 150 130000 1412 O m CQ46-020 2086359 91 Taringo I Barnum 0 0 6710 O 150 130000 1412 O m CQ46-024 2086329 10 75000 O Barnum 0 0 661 O 150 13000 1412 O m CQ46-024 208857 10 75000 O Barnum 0 0 74500 O 150 1412 O m CQ46-024 208857 10 7500 M Barnum 0 0 74600 O 150 1410 O 1410 O CQ46-024<!--</th--></th></t<> | CQ46-001 Easting Northing Analyte Depth Depth Result Result Level Level | COde-Cott Easting Northing Analyte Depth Depth Depth Depth Depth
Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth | CQ46-001 Basting Northing Analyte Depth Sat Result Reporting Date of Lared Lared Lared Lared Sat Sat Sat Sat Sat Sat Sat Sat Sat Sat | COde-6001 Easting Northing Analyte Depth (Bar) Depth (Bar) Result Reporting International Level Ther II Action International Level Ther II Action International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level International Level Inter | Chocation Easting Northing Analyte Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth | CQ46-001 CQ46-002 CQ485-003 CQ485-003 CQ485-003 TS08559 OF TS0859 OF TS0859 CRAPT (REG) CRAPT (REG) TS0850 TS0859 T | COMEGNIA Easting Northing Analyte Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth D | CQ46-COR Easting Northing Analyte Depth Depth Depth Depth Depth Depth Linut Linut Level Level Level Level Level Level Mean+25D CQ46-COR 20853073 80 750599 60 Bamm 0 0 68100 150 133000 14126 m CQ46-COR 2085307 30 750599 60 Bamm 0 0 68100 150 133000 14126 m CQ46-COR 2085307 30 750549 00 Bamm 0 0 68100 150 133000 14126 m CQ46-COR 2085307 10 750540 00 Bamm 0 0 68100 150 133000 14126 m CQ46-COR 208537 10 750540 00 Bamm 0 0 74500 150 133000 14126 m CQ46-COR 208537 10 750540 00 Bamm 0 0 74500 133000 14136 | COCH-GOD Exacting Northing Analyte Depth (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr)
(Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Febr) (Fe | CQ46-010 Easting Northing Analyte Depth Perph (febr) Result Result Teverlo Teverlo Teverlo Teverlo Teverlo Leverl Mean+28D Mean+28D CQ46-010 208594-03 3760596 O Barnum 0 0 6710 O 150 130000 1412 O m CQ46-020 2086379 80 75050 60 Barnum 0 0 6710 O 150 130000 1412 O m CQ46-020 2086359 91 Taringo I Barnum 0 0 6710 O 150 130000 1412 O m CQ46-024 2086329 10 75000 O Barnum 0 0 661 O 150 13000 1412 O m CQ46-024 208857 10 75000 O Barnum 0 0 74500 O 150 1412 O m CQ46-024 208857 10 7500 M Barnum 0 0 74600 O 150 1410 O 1410 O CQ46-024 </th |

THSS Croun 000-1 Soil Besults Cro

	nit	bli	24	PV	20	20	20	20	ev.	Pv	Pv	P U	Pu.	Pt.	bu.	20	50	an.	et.	Pt.	bu.	Su.	Dr.	50.	bu.	bn	est.	PU.	DV.	50
	Unit	mg/kg																												
nits	Background Mean+2SD	16 99	66 91	66 91	16 99	66 91	16 99	66 91	66 91	16 99	16 99	66 91	16 99	16 99	16 99	16 99	16 99	16 99	66 91	66.91	66 91	16 99	16 99	16 99	66 91	16 99	66 91	90.81	18 06	18 06
nan Background Mean Plus I wo Standard Deviations or Reporting Limits	Ther II Action Background Level Mean+2SD	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	4410	71100	71100	71100
lations of K	Tier I Action Lèvel	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	441000	71100	71100	71100
ndard Dev	Reporting Limit	06	06	8	8	8	06	8	8	06	8	06	06	06	8	06	8	06	8	06	06	06	06	06	06	8	06	300	300	300
us I wo sta	Result	28 80	29 80	30 00	35 20	35 30	35 30	35 40	35 60	35 80	36 20	37 50	38 40	39 60	40 50	41 60	42 30	42 30	47 90	48 00	48 90	20 00	57 60	63 30	63 30	86 50	125 00	34 70	21 00	52 30
viean Fi	Depth End (feet)	0	0.5	0.5	0	0	0	0.5	0	\$0	\$0	\$0	90	50	0.5	0	0	0	50	50	90	0	0	0	0	90	0	\$0	\$0	0.5
rouna	Depth Start (feet)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
oreater than back	Analyte	Сћготит	Chromium	Chromum	Chromum	Chromum	Сћготит	Сһготит	Сћотит	Сһготит	Сһготит	Сһготит	Сһготит	Сһготит	Сһготит	Сһютит	Сһютит	Chromium	Chromum	Сһютит	Chromum	Chromum	Chromum	Chromium	Chromium	Сһготит	Chromium	Copper	Copper	Copper
SOII RESUILS	Northing (750649 50	750701 80	750622 10	750503 10	750502 20	750502 20	750708 90	750357 90	750589 90	750524 50	750599 60	750742 30	750662 60	750668 40	750398 20	750929 10	750929 10	750598 30	750887 84	750563 80	750968 40	750722 10	750788 20	750788 20	750660 20	750748 30	750708 90	750599 60	750630 40
inas Group voo-i son Results Greater t	Easting	2085450 20	2085879 70	2085633 50	2085455 00	2085330 10	2085330 10	2086003 60	2085457 40	2085826 20	2085951 20	2086073 80	2085945 10	2085821 50	2085940 50	2085516 80	2085314 60	2085314 60	2085950 00	2085944 60	2086011 80	2085369 50	2085444 40	2085314 60	2085314 60	2085695 30	2085254 10	2086003 60	2086073 80	2085884 50
D CCITI	Location	CN46-001	CP46-003	CO46-000	CN45-000	CM45-001	CM45-001	CQ46-005	CN44-000	CP46-001	CQ45-000	CQ46-006	CQ46-000	CP46-000	CQ46-001	CN45-001	CM47-003	CM47-003	CQ46-002	CQ47-000	CQ46-003	CN48-000	CN46-000	CM47-004	CM47-004	CO46-001	CM46-001	CQ46-005	CQ46-006	CP46-002
	HISS	900-176	900-165	900-165	900-176	900-176	900-176	900-165	900-176	900-165	591-006	900-165	900-165	900-165	900-165	900-176	101-000	101-000	900-165	101-000	900 165	101-000	900-176	101 000	101 000	900-165	921-006	900-165	900-165	591-006

3	
e	
ق	
Ë	

Location	tion	Easting	Northing	Analyte	Depth	Depth	Result	Reporting	Tier I Action	Tier II Action		Unit
					Start (feet)	End (feet)		Limit	Level	Level	Mean+2SD	
CO46-000	000-	2085633 50	750622 10	Copper	0	0.5	54 90	300	71100	71100	90 81	mg/kg
CM45-00	100-9	2085330 10	750502 20	Copper	0	0	55 00	300	71100	71100	18 06	mg/kg
CQ46-002	-005	2085950 00	750598 30	Copper	0	0.5	\$5.60	300	71100	71100	18 06	mg/kg
CQ45-000	000-	2085951 20	750524 50	Copper	0	0.5	58 30	300	71100	71100	90 81	mg/kg
CM46-002	-005	2085319 50	750699 70	Copper	0	0	62 50	300	71100	71100	9081	mg/kg
CP46-000	000	2085821 50	750662 60	Copper	0	0.5	67 40	300	71100	71100	18 06	mg/kg
CQ46-00I	100-	2085940 50	750668 40	Copper	0	0.5	09 69	300	71100	71100	90 81	mg/kg
CN46-001	100-	2085450 20	750649 50	Copper	0	0	70 40	300	71100	71100	18 06	mg/kg
CQ46-003	-003	208601180	750563 80	Copper	0	0.5	74 30	300	71100	71100	18 06	mg/kg
CQ46-004	100-	2086008 20	750640 00	Copper	0	0.5	74 50	300	71100	71100	18 06	mg/kg
CM47-004	400-	2085314 60	750788 20	Copper	0	0	76 20	300	71100	71100	18 06	mg/kg
CM46-001	100-5	2085254 10	750748 30	Copper	0	0	86 50	300	71100	71100	18 06	mg/kg
CN46-000	000-	2085444 40	750722 10	Copper	0	0	94 10	300	71100	71100	90 81	mg/kg
CN46-000	000-	2085444 40		Copper	0	0	94 10	300	71100	71100	9081	mg/kg
CN45-001	100-9	208551680	750398 20	Copper	0	0	06 56	300	71100	71100	90 81	mg/kg
CP46-003	-003	2085879 70		Copper	0	50	06 96	300	71100	71100	90 81	ส\/สิเม
CN46-002	-005	2085387 30		Copper	0	0	08 86	300	71100	71100	90 81	mg/kg
CN45-000	000-9	2085455 00		Copper	0	0	08 66	300£	71100	71100	18 06	mg/kg
CO46-00	100-	2085695 30		Copper	0	0.5	103 00	300	71100	71100	90 81	mgAg
CN44-000	000-1	2085457 40	750357 90	Copper	0.	0	113 00	300	71100	00112	90 81	mg/kg
CQ46-000	000-	2085945 10	750742 30	Copper	0	0.5	125 00	300	71100	71100	18 06	mg/kg
CN47-001	100-	2085375 30		Copper	0	0	132 00	300	71100	71100	18 06	mg/kg
900-165 CP46-001	-001	2085826 20	750589 90	Copper	0	0.5	138 00	300	71100	71100	90 81	mg/kg
CQ46-005	-005	2086003 60	750708 90	Vanadrum	0	0.5	01 19	001	13400	13400	45 59	mg/kg
CN46-000	000-9	2085444 40	750722 10	Vanadıum	0	0	70 80	001	13400	13400	45 59	mg/kg
CP46-003	-003	2085879 70	750701 80	Vanadıum	0	0.5	06 0/	001	13400	13400	45 59	mg/kg
CO46-000	000-	2085633 50	750622 10	Vanadium	0	0.5	71 80	001	13400	13400	45 59	mg/kg
CM46-002	5-002	2085319 50	750699 70	Vanadium	0	0	73 10	100	13400	13400	45 59	mg/kg
CM46-002	5-002	2085319 50	750699 70	Vanadium	0	0	73.10	2	13400	13400	03 37	ayou

	IHSS G	roup 000-1	IHSS Group 000-1 Soil Results Greater th	Freater than Backg	round N	Mean P	lus Two Sta	ndard Devi	ations or Re	an Background Mean Plus Two Standard Deviations or Reporting Limits	nits	
SSHI	Location	Easting	Northing	Analyte	Depth	Depth	Result	Reporting	Tier I Action	Tier II Action Background	Background	Unit
				C A Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secret Secre	Start (Ref.)	(Red)	, X	Limit	Level	Level	Mean+2SD	
101-000	CN47-001	2085375 30	750825 60	Vanadium	0	0	86 20,	001	13400	13400	45 59	mg/kg
900-165	CO46-001	2085695 30		Vanadıum	0	0.5	87 30	001	13400	13400		mg/kg
900-165	CQ46-004	2086008 20		Vanadium	0	0.5	00 68	001	13400	13400		mg/kg
900-165	CQ46-003	208601180	750563 80	Vanadium	0	0.5	09 68	100	13400	13400	45 59	mg/kg
9/1-006	CN46-001	2085450 20	750649 50	Vanadium	0	0	95 20	001	13400	13400	45 59	mg/kg
900-165	CQ46-002	2085950 00	750598 30	Vanadrum	0	0.5	105 00	001	13400	13400	45 59	mg/kg
900-165	CP46-000	2085821 50	750662 60	Vanadium	0	0.5	107 00	8	13400	13400	45 59	mg/kg
9/1-006	CN46-002	2085387 30	750607 80	Vanadium	0	0	108 00	<u>8</u>	13400	13400	45 59	mg/kg
900-176	CM45-001	2085330 10	750502 20	Vanadıum	0	0	109 00	901	13400	13400	45 59	mg/kg
900-176	CN45-000	2085455 00		Vanadrum	0	0	109 00	001	13400	13400		mg/kg
900-176	CN45-001	2085516 80	750398 20	Vanadium	0	0	112 00	001	13400	13400	45 59	mg/kg
591-006	CO48-000	2085951 20	750524 50	Vanadium	0	0.5	126 00	001	13400	13400	45 59	mg/kg
900-165	900-9 1 OO	2086073 80		Vanadium	0	0.5	131 00	001	13400	13400		mg/kg
900-165	CO46-000	2085945 10		Vanadium	0	0.5	132 00	001	13400	13400		mg/kg
921-006	CN44-000	2085457 40		Vanadıum	0	0	140 00	100	13400	13400	45 59	mg/kg
900-165	CP46-002	2085884 50		Vanadium	0	0.5	141 00	001	13400	13400	45 59	mg/kg
591-006	CO46-001	2085940 50		Vanadium	0	0.5	143 00	001	13400	13400	45 59	mg/kg
921-006	CM46-001	2085254 10		Vanadıum	0	0	158 00	001	13400	13400		mg/kg
900-165	CP46-001	2085826 20		Vanadium	0	\$0	175 00	100	13400	13400	45 59	mg/kg
900-165	CO45-000	2085951 20		Zinc	0	0.5	79 20	-05	276000	276000	73.76	mg/kg
900-165	CQ46-002	2085950 00		Zinc	0	0.5	80 40	20	276000	276000		mg/kg
591-006	CO46-000	2085945 10		Zinc	0	0.5	86 40	05	000925	276000	73.76	mg/kg
\$91-006	CQ46-006	2086073 80		Znnc	0	50	09 88	90	9200925	276000	73.76	mg/kg
900-176	CM46-002	2085319 50		Znnc	0	0	09 68	90	276000	276000	73.76	mg/kg
921-006	CM46-002	2085319 50		Zinc	0	0	09 68	05	000925	876000	73.76	mg/kg
900-165	CQ46-001	2085940 50		Zinc	0	0.5	09 96	90	276000	276000	73.76	mg/kg
\$91-006	CQ46-003	208601180		Zinc	0	0.5	111 00	50	276000	276000	13.76	mg/kg
\$91-006	CP46-001	2085826 20		Zınc	0	0.5	112 00	50	9200925	276000		mg/kg
900-165	CQ46-004	2086008 20	750640 00	Zinc	0	0.5	115 00	50	576000	276000	73.76	mg/kg

3	
<u>e</u>	
ā	
2	
•	

	and Unit) mg/kg) mg/kg) mg/kg) mg/kg	0 mg/kg	0 mg/kg	0 mg/kg	ing/kg	ug/kg
imits	Background Mean+2SD	4467 00	4467 00	4467 00	4467 00	4467 00	4467 00	4467 00	1 22	N/A
eporting L	Tier II Action Background Level Mean+2SD	N/A	N/A	N/A	N/A	N/A	V/A	N/A	0196	N/A
iations or R	Tier I Action Level	N/A	0196	V/A						
ndard Dev	Reporting Limit	3000	3000	3000	3000	3000	3000	3000	20	710
us Two Sta	Result	20500 00	21100 00	26200 00	28400 00	33700 00	84100 00	87100 00	1 %	1400 00
Mean Pl	Depth End	0.5	0	0.5	0.5	0.5	0	0.5	0	0.5
round	Depth Start	0	0	0	0	0		0	0	0
THSS Group 000-1 Soil Results Greater than Background Mean Plus Two Standard Deviations or Reporting Limits	Analyte	Calcium	Calcium	Calctum	Calcium	Calcium	Calctum	Calcium	Selenium	Phenanthrene
Soil Results	Northing	750589 90	750722 10	750742 30	750640 00	750524 50	750748 30	750563.80	750748 30	750660 20
ronn 000-1	Easting	2085826.20	2085444 40	2085945 10	2086008 20	00 1303000	02 1666902	08 1 109800	2085254 10	05 5095800
D SSH1	Location	CP46-001	CNA6-000	000-9800	CO46-004	2004	CA446.001	CO46-001	CMAK-001	COAK-001
	SSHI	165	900-176	200-164	291.000	57,000	201-000	271-000	201-000	2/1-00

N/A = not available SD = standard deviation

Table 4

			J-1 Californ	Of Glissin years				
Analyte	Total Number Samples Analyzed	Detection Frequency	Maximum Concentration	nber Detection Maximum Average Unit	Unit	Tier I Action Level	Tier II Action Level	Background Mean+2SD
	37	000	2000 00	724 64	ug/kg	N/A	N/A	N/A
4-Nitroaniline	37	800	2000 00	838 11	ug/kg	15400000	15400000	N/A
4 Nitrophenol	27	00 001	4 20	1 32	pCI/g	N/A	N/A	N/A
Kadıum-220	22	000	800.00	305 08	ug/kg	576000000	576000000	N/A
Benzyl Alcohol	3/	000	000	000	pC1/g	1429	252	000
Plutonium-239/240	37	000	395 00	80 091	ug/kg	N/A	N/A	N/A
P Bromodiphenyi Eurei	37	000	395 00	156 96	ug/kg	38400000	38400000	N/A
2,4-Dinemyiphenoi	37	000	395 00	160 39	ug/kg	0000196	0000196	A/A
4 Memyipnenoi	37	000	00 008	358 92	ug/kg	7680000	7680000	N/A
4-Chloroaniine	23	000	26 00	23.76	ug/kg	6400000	64000	N/A
Bis(2-Chioroisopropyi).eurei	2	900	395 00	159 69	ug/kg	1000000000	0000000001	A/A
Phenol	5 6	8	305.00	18581	ug/kg	A/X	A/A	A/X
Pyndine	3,	8 8	305.00	87 691	119/kg	407000	4070	A/N
Bis(2-Chlorethyl)Ether	37	80	00.000	174.01	a Woll	A/N	N/A	N/A
B1s(2-Chloroethoxy)Methane	37	000	001.61	101/1	9.45	20000000	320000	A/A
Bis(2-Ethylhexyl)Phthalate	37	16 22	75000 00	65 1622	ugykg	3200000	2040000	V.N
Di-N-Octylphthalate	37	000	395 00	159 04	ug/kg	100000000	3840000	C
Hexachlorobenzene	37	000	395 00	162 12	ug/kg	280000	2800	V/A
2.4.6.Tuhomonhenol	24	95 83	3800 00	2987 50	ug/kg	N/A	N/A	V/A
Anthracene	37	541	290 00	102 66	ug/kg	676000000	476000000	V/A
1 2 4. Treblombenzene	37	000	395 00	153 53	ug/kg	19200000	19200000	N/A
24 Dicklompherol	37	000	395 00	16039	ug/kg	0000925	\$760000	K/A
2.4 Districtolisme	37	000	395 00	15665	ug/kg	000659	0659	K/Z
Z't- Dimacronica	37	40 54	00 0091	257 55	ug/kg	27600000	27600000	A/N
Pyrene	12	000	395 00	155 99	ug/kg	1000000000	1000000000	N/A
Dimethly Phthalate		541	70.00	151 82	ug/kg	7680000	7680000	ΥX
Dibenzofuran	15	1000	24.00	1691	2/2/2	N/A	N/A	A/A
Potassium-40	73	300	3 3		۲	A/N	AN	031
Cesium-134	23	00 001	010	70.0	200			

Table 4
IHSS Group 000-1 Summary of Analytical Results

Analyte	Samples Analyzed	Detection Frequency	Concentration	Concentration	Co nit	Tier I Action Level	Tier II Action Level	Background Mean+2SD
Polonium-210	23	00 001	2000 00	652 17	pC1/g	N/A	A/N	A/N
Thorium-230	23	00 001	30 00	1 30	pCI/g	A/N	N/A	N/A
Americium-24!	23	00 001	4 50	0 62	pCı/g	215	38	0 02
Bismuth-214	23	00 001	0.87	0 64	bCI/g	N/A	A/A	A/A
Bismuth-212	23	00 001	06	070	bC1/g	N/A	A/A	N/A
Thallum-208	23	00 001	0.76	0.42	pCı/g	N/A	A/A	A/A
Thorium-231	23	100 00	4 70	990	pCı/g	N/A	A/A	A/A
Lead-214	23	00 001	68 0	190	bCi/g	N/A	N/A	A/A
Lead-212	23	100 00	2 00	117	pCı/g	N/A	A/A	N/A
Protactinium-234	23	00 001	00 0	000	pCı/g	N/A	Y/A	N/A
Protactinium-234m	23	100 00	000	000	pCı/g	N/A	A/A	A/A
Uranıum-235	23	00 001	0.32	0.14	pCı/g	135	24	600
Terphenyl D14	24	95 83	2600 00	2020 83	ug/kg	N/A	N/A	A/A
Benzo(Ghı)Perylene	37	18 92	490 00	162 09	ug/kg	N/A	N/A	A/A
Indeno(1,2,3-Cd)Pyrene	37	10.81	440 00	165 03	ug/kg	614000	6140	A/A
Benzo(B)Fluoranthene	37	27 03	580 00	171 80	ug/kg	614000	6140	N/A
Fluoranthene	37	37 84	1900 00	270 43	ug/kg	76800000	76800000	A/A
Benzo(K)Fluoranthene	37	24 32	750 00	184 12	ug/kg	6140000	61400	N/A
Acenaphthylene	37	00 0	200 00	81 88	ug/kg	N/A	A/A	N/A
Chrysene	37	43 24	790 00	178 03	ug/kg	61400000	614000	N/A
2-Fluorobiphenyl	24	95 83	2300 00	1904 17	ug/kg	Α/X	N/A	N/A
O-Fluorophenol	24	95 83	3700 00	2895 83	ug/kg	N/A	N/A	A/A
Bis(2-Chloroisopropyl)Ether	14	000	395 00	373 21	ug/kg	A/A	N/A	N/A
Nitrobenzene-D5	24	95 83	2600 00	2058 13	ug/kg	N/A	N/A	N/A
Phenol-D5	24	95 83	3700 00	2908 13	ug/kg	N/A	N/A	N/A
Benzo(A)Pyrene	37	35 14	750 00	174 50	ug/kg	61400	614	N/A
2,4-Dinitrophenol	37	000	2000 00	83081	ug/kg	384000000	3840000	N/A
4 6-Dinitro-2-Methylphenol	37	000	2000 00	745 27	ug/kg	192000	192000	N/A

Table 4
IHSS Group 000-1 Summary of Analytical Results

		2 X X X	- XX					
Analyce	Total Number Samples Analyzed	Detection Prequency	Maximum Concentration	Average Concentration		Tier I Action Level	Ther II Action Level	Background Mean+2SD
Dibenz(A,H)Anthracene	37	000	395 00	162 46	ug/kg	61400	614	ΑΝ
1 3-Dichlorobenzene	37	000	395 00	155 59	ug/kg	N/A	V/A	A/A
Benzo(A)Anthracene	37	43 24	750 00	171 39	ug/kg	614000	6140	N/A
4-Chloro-3-Methylphenol	37	000	800 00	294 18	ug/kg	N/A	ΝΆ	N/A
2 6-Dinitrotoluene	37	000	395 00	164 18	ug/kg	000659	0689	A/N
N-Nitrosodi-N-Propylamine	37	000	395 00	16 2 9 1	ug/kg	64000	049	Y/X
Benzoic Acid	37	000	2000 00	800 27	ug/kg	0000000001	1000000000	A/N
Hexachloroethane	37	000	395 00	163 47	ug/kg	125000000	320000	N/A
4-Chlorophenyl Phenyl Ether	37	000	395 00	157 64	ug/kg	N/A	Α/X	N/A
Iron	29	00 001	41400 00	29534 48	mg/kg	276000	276000	18037 00
Lead	29	00 001	236 00	42 95	mg/kg	1000	0001	54 62
Manganese	29	100 00	701 00	471 52	mg/kg	83600	83600	365 08
Molybdenum	29	00 001	000	000	mg/kg	0196	0196	N/A
Nickel	29	00 001	62 30	39 19	mg/kg	38400	38400	14 91
Potassium	29	00 001	33000 00	2243103	mg/kg	N/A	Α/X	2967 20
Silver	29	00 001	000	000	mg/kg	0196	0196	N/A
Strontium	29	00 001	483 00	213 72	mg/kg	0000001	000001	48 94
Tin	29	100 00	13 90	3 23	mg/kg	100000	100000	N/A
Actinium	23	00 001	2 10	121	pC1/g	V/A	ΝΑ	N/A
Antimony	29	00 001	15 20	2 29	mg/kg	892	768	N/A
Arsenic	29	00 001	21 10	18 11	mg/kg	299	3	60 01
Banum	29	00 001	1050 00	734 86	mg/kg	133000	133000	141 26
Cadmum	29	00 001	41 40	4 58	mg/kg	1920	1920	191
Chromum	29	00 001	125 00	41 89	mg/kg	44300	4410	16 99
Cobalt	29	00 001	000	000	mg/kg	000511	115000	1601
Copper	29	00 001	138 00	82 49	mg/kg	00117	71100	9081
Vanadium	29	00 001	175 00	112 99	mg/kg	13400	13400	45 59
Zinc	29	00 001	3010 00	265 53	mg/kg	0009LS	276000	73.76

IHSS Group 000-1 Summary of Analytical Results

			6					
Analyte	Total Number Samples Analyzed	Detection Frequency	Maximum Concentration	Average Concentration	Unit	Tier I Action Level	Tier II Action Level	Background Mean+2SD
Calcium	29	100 00	115000 00	23939 66	mg/kg	N/A	A/A	4467 00
Uranium 238/234	23	100 00	4 90	2 58	pCı/g	N/A	N/A	N/A
Hexachlorocyclopentadiene	37	000	395 00	155 99	ug/kg	13300000	1330000	A/A
Selenium	29	00 001	96	015	mg/kg	0196	9610	1.22
Isophorone	37	000	395 00	156 96	ug/kg	1000000000	4720000	A/A
Acenapthene	37	541	180 00	61 06	ug/kg	115000000	115000000	A/A
Diethyl Phthalate	37	0000	395 00	152 53	ug/kg	000000001	1000000000	N/A
Di-N-Butyl Phthalate	37	000	395 00	162 46	ug/kg	N/A	A/X	A/A
Phenanthrene	37	40 54	1400 00	219 81	ug/kg	N/A	A/X	A/A
Butyl Benzylphthalate	37	541	360 00	172 07	ug/kg	384000000	384000000	N/A
N-Nitrosodiphenylamine	37	000	395 ()()	154 62	ug/kg	36500000	915000	A/A
Fluorene	37	541	140 00	156 88	ug/kg	76800000	76800000	A/N
Hexachlorobutadiene	37	000	395 00	154 28	ug/kg	\$750000	57500	A/X
Pentachlorophenol	37	000	2000 00	725 96	ug/kg	14900000	37400	A/Z
2,4 6-Trichlorophenol	37	000	395 00	155 27	ug/kg	159000000	407000	N/A
2-Nitroaniline	37	000	2000 00	720 47	ug/kg	115000	115000	A/X
2-Nitrophenol	37	000	395 00	15631	ug/kg	N/A	A/X	N/A
Naphthalene	37	000	395 00	155 59	ug/kg	76800000	76800000	N/A
2-Methylnaphthalene	37	000	395 00 ×	153 19	ug/kg	76800000	76800000	A/X
2-Chloronaphthalene	37	000	395 00	155 27	ug/kg	154000000	154000000	N/A
3,3'-Dichlorobenzidine	37	000	00 008	369 59	ug/kg	000966	0966	A/A
2-Methylphenol	37	000	395 00	171 47	ug/kg	00000196	00000196	A/A
2-Chlorophenol	37	000	395 00	159 36	ug/kg	9610000	9610000	A/N
2 4,5-Trichlorophenol	37	000	395 00	156 96	ug/kg	192000000	192000000	A/N
Nitrobenzene	37	000	395 00	166 59	ug/kg	000196	961000	A/A
3-Nitroaniline	37	000	2000 00	729 11	ug/kg	N/A	N/A	A/X
Aroclor 1016	-	000	34	34	ug/kg	224000 00	2240 00	A/A
Aroclor 1221	-	000	34	34	ug/kg	224000 00	2240 00	N/A

Table 4
IHSS Group 000-1 Summary of A

Samples Analyze	ber Detection lyzed Frequency	Maximum Concentration	Average Concentration	Unit	ver Detection Maximum Average Unit The I Action yzed Frequency Concentration Concentration Level	Unit Tier I Action Tier II Action Background Level Level Mean+2SD	Background Mean+2SD
Aroclor 1232	0000	34	34	ug/kg	224000 00	2240 00	N/A
Aroclor 1242	000	34	34	ug/kg	224000 00	2240 00	A/N
Arocior 1248	000	34	34	ug/kg	224000 00	2240 00	A/X
Aroclor 1254	00 001	99	99	ug/kg	224000 00	2240 00	A/A
Aroclor 1260	100 00	78	78	ug/kg	224000 00	2240 00	N/A

3.0 DEVIATIONS FROM PLANNED SAMPLING SPECIFICATIONS

Deviations from the planned sampling specifications described in IASAP Addendum #IA-03-02 (DOE 2002a) are presented in the following table

Table 5
IHSS Group 000-1 Deviations from Planned Sampling Specifications

Location Code	Planned Easting	Planned Northing	Actual Easting	Actual Northing	Comments
CM47-003	2085314 67	750929 01	2085375 3	750825 6	Sample location deviations
CO46-000	2085633 51	750622 07	2085945 1	750742 3	resulted from the location of
CM46-002	2085319 43	750713 68	2085319 5	750699 7	roll-off bins or auger refusal
CM45-001	2085330 14	750497 15	2085330 1	750502 2	

4.0 DATA QUALITY ASSESSMENT

The Data Quality Objectives (DQOs) for this project are described in the IASAP (DOE 2002) All DQOs for this project were achieved based on the following

- Regulatory agency approved sampling program design (IASAP Addendum 02-01 [DOE 2002a),
- Collection of samples in accordance with the sampling design,
- Results of the Data Quality Assessment as described in the following sections

4 1 1 Data Quality Assessment Process

The DQA process ensures that the type, quantity and quality of environmental data used in decision making are defensible, and is based on the following guidance and requirements

- EPA QA/G-4, 1994a, Guidance for the Data Quality Objective Process,
- EPA QA/G-9, 1998, Guidance for the Data Quality Assessment Process, Practical Methods for Data Analysis, and
- DOE Order 414 1A, 1999, Quality Assurance

Verification and Validation (V&V) of the data are the primary components of the DQA The final data are compared with original project DQOs and evaluated with respect to project decisions, uncertainty within the decisions, and quality criteria required for the data, specifically precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) Validation criteria are consistent with the following RFETS-specific documents and industry guidelines

- EPA 540/R-94/012, 1994b, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,
- EPA 540/R-94/013, 1994c, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, and
- Kaiser-Hill Company, L L C (K-H) V&V Guidelines
- General Guidelines for Data Verification and Validation, DA-GR01-v2, 2002a
- V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v2, 2002b
- V&V Guidelines for Volatile Organics, DA-SS01-v3, 2002c
- V&V Guidelines for Semivolatile Organics, DA-SS02-v3, 2002d

- V&V Guidelines for Metals, DA-SS05-v3, 2002e
- Lockheed-Martin, 1997, Evaluation of Radiochemical Data Usability, ES/ER/MS-5

This report will be submitted to the Comprehensive Environmental, Response, Compensation and Liability Act (CERCLA) Administrative Record (AR) for permanent storage 30 days after being provided to CDPHE and/or U S EPA

4 1 2 Verification and Validation of Results

Verification ensures that data produced and used by the project are documented and traceable in accordance with quality requirements. Validation consists of a technical review of all data that directly support the project decisions so that any limitations of the data relative to project goals are delineated and the associated data are qualified accordingly. The V&V process defines the criteria that constitute data quality, namely PARCCS parameters. Data traceability and archival are also addressed. V&V criteria include the following.

- · Chain-of-custody,
- Preservation and hold-times,
- Instrument calibrations,
- Preparation blanks,
- Interference check samples (metals),
- Matrix spikes/matrix spike duplicates (MS/MSD),
- Laboratory control samples (LCS),
- Field duplicate measurements,
- Chemical yield (radiochemistry),
- Required quantitation limits/minimum detectable activities (sensitivity of chemical and radiochemical measurements, respectively), and
- Sample analysis and preparation methods

Evaluation of V&V criteria ensures that PARCCS parameters are satisfactory (i.e., within tolerances acceptable to the project) Satisfactory V&V of laboratory quality controls are captured through application of validation "flags" or qualifiers to individual records

Raw hardcopy data (e g, individual analytical data packages) are currently filed by RIN and are maintained by Kaiser-Hill Analytical Services Division, older hardcopies may reside in the Federal Center in Lakewood, Colorado Electronic data are stored in the RFETS Soil and Water Database (SWD)

Both quality control (QC) and real data, as of May 22, 2003, are included on the enclosed CD, Microsoft ACCESS 2000 format

413 Accuracy

The following measures of accuracy were evaluated

- Laboratory Control Sample Evaluation,
- Surrogate Evaluation,
- · Blanks, and
- Sample Matrix Spike Evaluation

Results are compared to method requirements and project goals. The results of these comparisons are summarized for RFCA COCs where the result could impact project decisions. Particular attention is paid to those values near ALs when quality control (QC) results could indicate unacceptable levels of uncertainty for decision-making purposes.

Laboratory Control Sample Evaluation

The frequency of Laboratory Control Sample (LCS) measurements, relative to each laboratory batch, is given in Table 6 LCS frequency was adequate based on at least one LCS per batch. The minimum and maximum LCS results are also tabulated, by chemical and method, for the entire project. While not all LCS results are within tolerances, project decisions based on AL exceedances were not affected. Any qualifications of results due to LCS performance exceeding upper or lower tolerance limits are captured in the V&V flags, described in the Completeness Section

Surrogate Evaluation

The frequency of surrogate measurements is given in Table 7 Surrogate frequency was adequate based on at least one analysis per sample. The minimum and maximum surrogate results are also tabulated, by chemical, for the entire project. Any qualifications of results due to surrogate results are captured in the V&V flags, described in the Completeness Section.

Blank Evaluation

Detectable amounts of contaminants within the blanks, which could indicate possible cross-contamination of samples, are evaluated if the same contaminant is detected in the associated real samples. When the real result is less than 10 times the blank result for laboratory contaminants, or less than 5 times the result for non-laboratory contaminants, the real result is eliminated. None of the chemicals detected in blanks (Table 8) were detected at concentrations in real samples greater than ALs, therefore no significant blank contamination is indicated.

Table 6 Laboratory Control Sample Evaluation

CAS	Analyte	Minimum	Minimum Maximum	Number of	Number of	Unit	Laboratory Test
Number				Laboratory	Laboratory		Method
	,			Samples	Batches		
75-35-4	1,1-DICHLOROETHENE	66	101	2	2	%REC	SW-846 8260
120-82-1	1,2,4-TRICHLOROBENZENE	67	61	2	2	%REC	SW-846 8270
39638-32-9	39638-32-9 2,2'-OXYBIS(1-	51	89	2	2	%REC	SW-846 8270
	CHLOROPROPANE)						
95-95-4	2,4,5-TRICHLOROPHENOL	23	99	2	2	%REC	SW-846 8270
88-06-2	2,4,6-TRICHLOROPHENOL	25	02	2	2	%REC	SW-846 8270
120-83-2	2,4-DICHLOROPHENOL	54	89	2	2	%REC	SW-846 8270
105-67-9	2,4-DIMETHYLPHENOL	23	99	2	2	%REC	SW-846 8270
51-28-5	2,4-DINITROPHENOL	95	80	2	2	%REC	SW-846 8270
121-14-2	2,4-DINITROTOLUENE	54	<i>L</i> 9	2	2	%REC	SW-846 8270
606-20-2	2,6-DINITROTOLUENE	25	89	2	2	%REC	SW-846 8270
91-58-7	2-CHLORONAPHTHALENE	0\$	61	2	2	%REC	SW-846 8270
95-57-8	2-CHLOROPHENOL	54	70	2	2	%REC	SW-846 8270
91-57-6	2-METHYLNAPHTHALENE	51	64	2	2	%REC	SW-846 8270
95-48-7	2-METHYLPHENOL	54	89	2	2	%REC	SW-846 8270
88-74-4	2-NITROANILINE	95	71	2	2	%REC	SW-846 8270
91-94-1	3,3'-DICHLOROBENZIDINE	33	45	2	2	%REC	SW-846 8270
534-52-1	4,6-DINITRO-O-CRESOL	99	67	2	2	%REC	SW-846 8270
106-47-8	4-CHLOROANILINE	24	34	2	2	%REC	SW-846 8270
106-44-5	4-METHYLPHENOL	54	71	2	2	%REC	SW-846 8270
83-32-9	ACENAPHTHENE	52	65	2	2	%REC	SW-846 8270
120-12-7	ANTHRACENE	48	67	2	2	%REC	SW-846 8270
12674-11-2	12674-11-2 AROCLOR-1016	93	93	1	1	%REC	SW-846 8082
11096-82-5	11096-82-5 AROCLOR-1260	96	96	-		%REC	SW-846 8082
100-51-6	BENYZL ALCOHOL	52	69	2	2	%REC	SW-846 8270

Table 6 Laboratory Control Sample Evaluation

0.00						:	
CAS	Analyte	Minimum	Maximum	Number of	Number of	Cnit	Laboratory lest
Number				Laboratory	Laboratory		Method
				Samples	Batches		
71-43-2	BENZENE	112	120	2	2	%REC	SW-846 8260
56-55-3	BENZO(A)ANTHRACENE	48	49	2	2	%REC	SW-846 8270
50-32-8	BENZO(A)PYRENE	48	59	2	2	%REC	SW-846 8270
205-99-2	BENZO(B)FLUORANTHENE	48	99	2	2	%REC	SW-846 8270
207-08-9	BENZO(K)FLUORANTHENE	51	\$9	2	2	%REC	SW-846 8270
65-85-0	BENZOIC ACID	42	95	2	2	%REC	SW-846 8270
111-44-4	BIS(2-CHLOROETHYL) ETHER	51	72	2	2	%REC	SW-846 8270
117-81-7	BIS(2-	52	69	2	2	%REC	SW-846 8270
	ETHYLHEXYL)PHTHALATE						
85-68-7	BUTYLBENZYLPHTHALATE	51	69	2	2	%REC	SW-846 8270
108-90-7	CHLOROBENZENE	95	105	2	2	%REC	SW-846 8260
218-01-9	CHRYSENE	48	64	2	2	%REC	SW-846 8270
53-70-3	DIBENZ(A,H)ANTHRACENE	47	99	2	2	%REC	SW-846 8270
132-64-9	DIBENZOFURAN	52	7 9	2	2	%REC	SW-846 8270
84-66-2	DIETHYL PHTHALATE	55	99	2	2	%REC	SW-846 8270
131-11-3	DIMETHYL PHTHALATE	53	59	2	2	%REC	SW-846 8270
84-74-2	DI-N-BUTYL PHTHALATE	51	0/	2	2	%REC	SW-846 8270
117-84-0	DI-N-OCTYL PHTHALATE	48	99	2	2	%REC	SW-846 8270
206-44-0	FLUORANTHENE	50	99	2	2	%REC	SW-846 8270
86-73-7	FLUORENE	52	63	2	2	%REC	SW-846 8270
118-74-1	HEXACHLOROBENZENE	49	64	2	2	%REC	SW-846 8270
87-68-3	HEXACHLOROBUTADIENE	50	61	2	2	%REC	SW-846 8270
77-47-4	HEXACHLOROCYCLOPENTAD IFINE	37	47	7	2	%REC	SW-846 8270
67-72-1	HEXACHLOROETHANE	50	63	2	2	%REC	SW-846 8270

Table 6
Laboratory Control Sample Evaluation

24.5							
CAS	Analyte	Minimum	Minimum Maximum	Number of	Number of	Cnit	Laboratory Test
Number				Laboratory Samples	Laboratory Batches		Method
193-39-5	193-39-5 INDENO(1,2,3-CD)PYRENE	47	99	2	2	%REC	SW-846 8270
78-59-1	ISOPHORONE	59	91	2	2	%REC	SW-846 8270
91-20-3	NAPHTHALENE	51	63	2	2	%REC	SW-846 8270
98-95-3	98-95-3 NITROBENZENE	53	89	2	2	%REC	SW-846 8270
621-64-7	621-64-7 N-NITROSO-DI-N-	53	02	2	2	%REC	SW-846 8270
	PROPYLAMINE						
9-08-98	86-30-6 N-NITROSODIPHENYLAMINE	61	<i>SL</i>	2	2	%REC	SW-846 8270
87-86-5	PENTACHLOROPHENOL	37	95	2	2	%REC	SW-846 8270
108-95-2	PHENOL	55	02	2	2	%REC	SW-846 8270
100-02-7	100-02-7 P-NITROPHENOL	52	99	2	2	%REC	SW-846 8270
129-00-0	PYRENE	47	19	2	2	%REC	SW-846 8270
108-88-3	TOLUENE	94	102	2	2	%REC	SW-846 8260
79-01-6	79-01-6 TRICHLOROETHENE	103	114	2	2	%REC	SW-846 8260

Table 7
Surrogate Recovery Summary

	Surrogate Recovery	Juninai y		
VOC Surrogate Rec	overies			
Number of Samples	Analyte	Mınımum	Maximum	Unit Code
6	1,2-DICHLOROETHANE-D4	97	105	%REC
6	4-BROMOFLUOROBENZENE	101	105	%REC
6	TOLUENE-D8	96	98	%REC
SVOC Surrogate Rec	ovenes			
Number of Samples	Analyte	Minimum	Maxımum	Unit Code
24	TERPHENYL-D14	51	67	%REC
24	2-FLUOROBIPHENYL	45	65	%REC
24	2-FLUOROPHENOL	39	65	%REC
24	NITROBENZENE-D5	38	69	%REC

Table 8
Field Blank Summary

Sample QC Code	Test Method Name	Analyte	Maximum Detected Value	Unit
RB	GAMMA	Uranium-235	0 16	pCı/g
RB	GAMMA	Uranıum-238	3	pCı/g

Sample Matrix Spike Evaluation

The frequency of MS measurements was adequate based on at least one MS per batch The minimum and maximum MS results are summarized by chemical, for the entire project in Table 9 MS recoveries alone do not result in rejection of data, any qualifications due to matrix spike performance are included in the validation flags summarized in the Completeness section

Table 9
Sample Matrix Spike Evaluation

CAS Number	Analyte	Minimum	Maximum	Number of Lab Samples	Number of Lab Batches	Unit	Lab Method
75-35-4	1,1-DICHLOROETHENE	96	96	1	1	%REC	SW-846 8260
120-82-1	1,2,4-TRICHLOROBENZENE	42	47	2	2	%REC	SW-846 8270
95-95-4	2,4,5-TRICHLOROPHENOL	50	50	2	2	%REC	SW-846 8270
88-06-2	2,4 6-TRICHLOROPHENOL	49	52	2	2	%REC	SW-846 8270
120-83-2	2,4-DICHLOROPHENOL	49	54	2	2	%REC	SW-846 8270
105-67-9	2,4-DIMETHYLPHENOL	50	55	2	2	%REC	SW-846 8270
51-28-5	2,4-DINITROPHENOL	40	45	2	2	%REC	SW-846 8270
121-14-2	2,4-DINITROTOLUENE	54	56	2	2	%REC	SW-846 8270

Table 9
Sample Matrix Spike Evaluation

0.40		nple Matrix				T	
CAS Number	Analyte	Minimum	Maximum	Number of Lab Samples	Number of Lab Batches	Unit	Lab Method
606-20-2	2,6-DINITROTOLUENE	51	54	2	2	%REC	SW-846 8270
91-58-7	2-CHLORONAPHTHALENE	45	50	2	2	%REC	SW-846 8270
95-57-8	2-CHLOROPHENOL	47	53	2	2	%REC	SW-846 8270
91-57-6	2-METHYLNAPHTHALENE	46	50	2	2	%REC	SW-846 8270
95-48-7	2-METHYLPHENOL	47	54	2	2	%REC	SW-846 8270
88-74-4	2-NITROANILINE	53	59	2	2	%REC	SW-846 8270
91-94-1	3,3'-DICHLOROBENZIDINE	38	40	2	2	%REC	SW-846 8270
534-52-1	4,6-DINITRO-O-CRESOL	39	54	2	2	%REC	SW-846 8270
106-47-8	4-CHLOROANILINE	31	34	2	2	%REC	SW-846 8270
106-44-5	4-METHYLPHENOL	48	55	2	2	%REC	SW-846 8270
83-32-9	ACENAPHTHENE	49	51	2	2	%REC	SW-846 8270
120-12-7	ANTHRACENE	50	53	2	2	%REC	SW-846 8270
12674-11-2	AROCLOR-1016	91	91	1	1	%REC	SW-846 8082
11096-82-5	AROCLOR-1260	83	83	1	l	%REC	SW-846 8082
100-51-6	BENYZL ALCOHOL	46	54	2	2	%REC	SW-846 8270
71-43-2	BENZENE	106	106	1	1	%REC	SW-846 8260
56-55-3	BENZO(A)ANTHRACENE	48	55	2	2	%REC	SW-846 8270
50-32-8	BENZO(A)PYRENE	50	53	2	2	%REC	SW-846 8270
205-99-2	BENZO(B)FLUORANTHENE	50	51	2	2	%REC	SW-846 8270
207-08-9	BENZO(K)FLUORANTHENE	51	51	2	2	%REC	SW-846 8270
65-85-0	BENZOIC ACID	19	30	2	2	%REC	SW-846 8270
111-44-4	BIS(2-CHLOROETHYL) ETHER	43	56	2	2	%REC	SW-846 8270
117-81-7	BIS(2- ETHYLHEXYL)PHTHALATE	42	51	2	2	%REC	SW-846 8270
85-68-7	BUTYLBENZYLPHTHALATE	52	61	2	2	%REC	SW-846 8270
108-90-7	CHLOROBENZENE	95	95	1	1	%REC	SW-846 8260
218-01-9	CHRYSENE	48	51	2	2	%REC	SW-846 8270
53-70-3	DIBENZ(A,H)ANTHRACENE	47	53	2	2	%REC	SW-846 8270

Table 9
Sample Matrix Spike Evaluation

	Analyte	Minimum	Maximum	Number	Number of	Unit	Lab
CAS Number	Allalyte	Minimum	Maximum		Lab Batches		Method
Manner		1		Samples	Lab Dawies		Menion
122 (4.0	DIDENZOCIDANI	40	61			W DEC	SW-846
132-64-9	DIBENZOFURAN	49	51	2	2	%REC	8270
84-66-2	DIETHYL PHTHALATE	53	54	2	2	%REC	SW-846
07-00 2		33	34	-] -	, and	8270
131-11-3	DIMETHYL PHTHALATE	50	55	2	2	%REC	SW-846
]		8270
84-74-2	DI-N-BUTYL PHTHALATE	51	61	2	2	%REC	SW-846
							8270
117-84-0	DI-N-OCTYL PHTHALATE	48	60	2	2	%REC	SW-846
						~~~	8270
206-44-0	FLUORANTHENE	52	56	2	2	%REC	SW-846
86-73-7	FLUORENE	48	50	2	2	%REC	8270 SW-846
80-73-7	PLUCKENE	40	30	2	<b>2</b>	70KEC	8270
118-74-1	HEXACHLOROBENZENE	48	50	2	2	%REC	SW-846
110 /4 /			]	_	-	701.00	8270
87-68-3	HEXACHLOROBUTADIENE	43	47	2	2	%REC	SW-846
					,		8270
	HEXACHLOROCYCLOPENTA	28	35	2	2	%REC	SW-846
	DIENE						8270
67-72-1	HEXACHLOROETHANE	43	46	2	2	%REC	SW-846
102.20.5	INDENO(1 0.2 CD)DVDENE	40	- 53		ļ	O'DEC	8270
193-39-5	INDENO(1,2,3-CD)PYRENE	48	53	2	2	%REC	SW-846 8270
78-59-1	ISOPHORONE	53	61	2	2	%REC	SW-846
70-33-1	ISOI HORONE	33	"	_	1 1	ARCC	8270
91-20-3	NAPHTHALENE	45	49	2	2	%REC	SW-846
							8270
98-95-3	NITROBENZENE	45	51	2	2	%REC	SW-846
							8270
	N-NITROSO-DI-N-	46	54	2	2	%REC	SW-846
	PROPYLAMINE					# DEC	8270
86-30-6	N-NITROSODIPHENYLAMINE	57	58	2	2	%REC	SW-846 8270
87-86-5	PENTACHLOROPHENOL	36	44	2	2	%REC	SW-846
61-00-5	FENTACHLOROFHENOL	30	44	2		MALEC	8270
108-95-2	PHENOL	48	54	2	2	%REC	SW-846
				_			8270
100-02-7	P-NITROPHENOL	50	50	2	2	%REC	SW-846
							8270
129-00-0	PYRENE	48	50	2	2	%REC	SW-846
							8270
108-88-3	TOLUENE	97	97	1	1	%REC	SW-846
70.01.6	TRICHI ODOETHENE	107	107	1	<del></del>	Ø DEC	8260 SW-846
79-01-6	TRICHLOROETHENE	107	107	1	1	%REC	8260

### 4 1 4 Precision

### Matrix Spike Duplicate Evaluation

Laboratory precision is measured through use of MSD. The frequency of MSD measurements was adequate based on at least one MS per batch (Table 10). Relative

percent differences (RPDs) exceeding 35 percent do not affect project decisions because all related real sample results (Table 11) were repeatable below ALs

Table 10
Sample Matrix Spike Duplicate Evaluation

Sample Matrix Spi	ke Duplicate	Evaluation	
Analyte Name	Number of	Number of	Max RPD
	Sample	Laboratory	(%)
	Pairs	Batches	
1,1-DICHLOROETHENE	1	1	5
1,2,4-TRICHLOROBENZENE	2	2	10
2,4,5-TRICHLOROPHENOL	2	2	10
2,4,6-TRICHLOROPHENOL	2	2	11
2,4-DICHLOROPHENOL	2	2	7
2,4-DIMETHYLPHENOL	2	2	9
2,4-DINITROPHENOL	2	2	26
2,4-DINITROTOLUENE	2	2	12
2,6-DINITROTOLUENE	2	2	17
2-CHLORONAPHTHALENE	2	2	8
2-CHLOROPHENOL	2	2	17
2-METHYLNAPHTHALENE	2	2	11
2-METHYLPHENOL	2	2	14
2-NITROANILINE	2	2	7
3,3'-DICHLOROBENZIDINE	2	2	81
4,6-DINITRO-O-CRESOL	2	2	23
4-CHLOROANILINE	2	2	25
4-METHYLPHENOL	2	2	12
ACENAPHTHENE	2	2	6
ANTHRACENE	2	2	6
AROCLOR-1016	1	1	1
AROCLOR-1260	1	1	1
BENYZL ALCOHOL	2	2	14
BENZENE	1	1	2
BENZO(A)ANTHRACENE	2	2	4
BENZO(A)PYRENE	2	2	4
BENZO(B)FLUORANTHENE	2	2	11
BENZO(K)FLUORANTHENE	2	2	2
BENZOIC ACID	2	2	71
BIS(2-CHLOROETHYL) ETHER	2	2	22
BIS(2-	2	2	96
ETHYLHEXYL)PHTHALATE			
BUTYLBENZYLPHTHALATE	2	2	6
CHLOROBENZENE	1	1	4
CHRYSENE	2	2	4
DIBENZ(A,H)ANTHRACENE	2	2	7
DIBENZOFURAN	2	2	8

Table 10
Sample Matrix Spike Duplicate Evaluation

Analyte Name	Number of	Number of	Max RPD
•	Sample	Laboratory	(%)
	Pairs	Batches	` ,
DIETHYL PHTHALATE	2	2	14
DIMETHYL PHTHALATE	2	2	9
DI-N-BUTYL PHTHALATE	2	2	8
DI-N-OCTYL PHTHALATE	2	2	13
FLUORANTHENE	2	2	9
FLUORENE	2	2	12
HEXACHLOROBENZENE	2	2	4
HEXACHLOROBUTADIENE	2	2	6
HEXACHLOROCYCLOPENTADI	2	2	4
ENE			
HEXACHLOROETHANE	2	2	18
INDENO(1,2,3-CD)PYRENE	2	2	6
ISOPHORONE	2	2	12
NAPHTHALENE	2	2	13
NITROBENZENE	2	2	19
N-NITROSO-DI-N-	2	2	20
PROPYLAMINE			
N-NITROSODIPHENYLAMINE	2	2	8
PENTACHLOROPHENOL	2	2	13
PHENOL	2	2	18
P-NITROPHENOL	2	2	20
PYRENE	2	2	6
TOLUENE	1	1	2
TRICHLOROETHENE	1	1	4

### Field Duplicate Evaluation

Field duplicate results reflect sampling precision, or overall repeatability of the sampling process. The frequency of field duplicate collection should exceed 1 field duplicate per 20 real samples, or 5 percent. Table 11 indicates that duplicate sampling frequencies were adequate except for PCBs and SVOCs.

A common metric for evaluating precision is the RPD value, RPD values are given in Table 12. Ideally, RPDs of less than 35 percent (in soil) indicate satisfactory precision. Values exceeding 35 percent only affect project decisions if the imprecision is great enough to cause contradictory decisions relative to the COC (i.e., one sample indicates clean soil whereas the QC partner does not). Those analytes exceeding 35% RPD were either repeatable to concentrations below action levels, which does not impact project decisions, or, if any sample result exceeded an action level, the concentration was considered real, and not due to sampling imprecision (e.g., arsenic).

Table 11
Field Duplicate Sample Frequency

Test Method Name	Sample Code	Number of Samples	% Duplicate Samples
GAMMA SPECTROSCOPY	REAL	24	8
GAMMA SPECTROSCOPY	DUP	2	•
SW-846 6200	REAL	30	7
SW-846 6200	DUP	2	]
SW-846 8082	REAL	2	0
SW-846 8260	REAL	1	100
SW-846 8260	DUP	1	100
SW-846 8270	REAL	23	4
SW-846 8270	DUP	1	1 4

Table 12 RPD Evaluation

KrD Evaluat	
Analyte	Maximum Result of RPD
1,1,1-TRICHLOROETHANE	5
1,1,2,2-TETRACHLOROETHANE	5
1,1,2-TRICHLOROETHANE	5
1,1-DICHLOROETHANE	5
1,1-DICHLOROETHENE	5
1,2,4-TRICHLOROBENZENE	5
1,2-DICHLOROETHANE	5
1,2-DICHLOROPROPANE	5
2,4,5-TRICHLOROPHENOL	0
2,4,6-TRICHLOROPHENOL	0
2,4-DICHLOROPHENOL	0
2,4-DIMETHYLPHENOL	0
2,4-DINITROPHENOL	0
2,4-DINITROTOLUENE	0
2,6-DINITROTOLUENE	0
2-BUTANONE	4
2-CHLORONAPHTHALENE	0
2-CHLOROPHENOL	0
2-NITROANILINE	0
4-CHLOROANILINE	0
4-METHYL-2-PENTANONE	4
ACENAPHTHENE	0
ACETONE	4
ANTHRACENE	0

Table 12 RPD Evaluation

RPD Evaluation	
Analyte	Maximum Result of RPD
ANTIMONY	0
ARSENIC	125
BARIUM	72
BENZENE	5
BENZO(A)ANTHRACENE	49
BENZO(A)PYRENE	45
BENZO(B)FLUORANTHENE	158
BENZO(K)FLUORANTHENE	48
BENZOIC ACID	0
BIS(2-	0
ETHYLHEXYL)PHTHALATE	
BROMODICHLOROMETHANE	5
BROMOFORM	5
BROMOMETHANE	5
BUTYLBENZYLPHTHALATE	0
CARBON DISULFIDE	5
CARBON TETRACHLORIDE	5
CHLOROBENZENE	5
CHLOROETHANE	5
CHLOROFORM	5 5
CHLOROMETHANE	5
CHRYSENE	53
CIS-1,3-DICHLOROPROPENE	5
COBALT	0
COPPER	82
DIBENZ(A,H)ANTHRACENE	0
DIBENZOFURAN	0
DIBROMOCHLOROMETHANE	5
ETHYLBENZENE	5
FLUORANTHENE	45
FLUORENE	0
HEXACHLOROBENZENE	0
HEXACHLOROBUTADIENE	5
HEXACHLOROCYCLOPENTADIE	0
NE	:
HEXACHLOROETHANE	0
INDENO(1,2,3-CD)PYRENE	164
IRON	107
ISOPHORONE	0
LEAD	127
MANGANESE	178

Table 12 RPD Evaluation

Analyte	Maximum Result of RPD
TETRACHLOROETHENE	5
TIN	42
TOLUENE	5
TRANS-1,3-DICHLOROPROPENE	5
TRICHLOROETHENE	5
VANADIUM	58
VINYL CHLORIDE	5
ZINC	81

### **Completeness**

Based on the project's DQOs, a minimum of 25% of the Environmental Restoration (ER) Program's analytical (and radiological) results are targeted for formal validation. Of that percentage, no more than 10 percent of the results may be rejected, which ensures that analytical laboratory practices are consistent with quality requirements. Table 13 shows the number of validated records (codes without "1"), verified records (codes with "1"), and rejected records for each analytical group.

Although frequency goals were not attained for "validation", 100% of the records were verified for all analytical suites except radionuclides. Because technical criteria are the same between verification and validation, the nonradionuclide suites effectively satisfy the minimum 25% validation criteria. Relative to radionuclides (via gamma spectroscopy), spot checks on flags documented in hardcopy packages indicate at least a 25% frequency, however, those flags have not yet been uploaded to SWD, thus the null values are reflected in the table. In summary, V&V frequency goals and rejection rates are acceptable for all of the suites shown for this project.

If additional V&V information is received, IHSSs 101, 165 and 176 records will be updated in the Soil and Water Database Frequency of data qualification and inferences from it will also be assessed as part of the Comprehensive Risk Assessment

### 4 1 5 Sensitivity

Reporting limits, in units of ug/kg for organics, mg/kg for metals, and pCi/g for radionuclides, were compared with RFCA WRW and Ecological Receptor ALs Adequate sensitivities of analytical methods were attained for all COCs that affect project decisions "Adequate" sensitivity is defined as a reporting limit less than an analyte's associated AL, typically less than one-half the AL

### 4 1 6 Summary of Data Quality

Data quality is acceptable for project decisions based on the V&V criteria cited and with the qualifications given

Table 13
Validation and Verification Summary

Validation Qualifier Code	Number of Records	Radionuclides	SW6010 (Metals)	SW8082 (PCBs)	SW8260 (VOCs)	SW8270 (SVOCs)
No V&V	464	464	0	0	0	0
J1	309	0	308	0	0	1
U1	1	0	1	0	0	0
V1	2250	0	390	14	329	- 1517
UJ1	1	0	1	0	0	0
Total	3025	464	700	14	329	1518
Total Validated	0%	0%	0%	0%	0%	0%
Percent Validated	0%	0%	0%	0%	0%	0%
Total Venfied	2561	0	700	14	329	1518
Percent Verified	0 84661157	0	1	1	1	1
Percent Rejected	0%	0%	0%	0%	0%	0%

Key

V1 V - Verified Validated w/ no qualifications

J J1 - Estimated

UJ1 - No detection at the estimated detection limit

1 Venfied

Table 13
Validation and Verification Summary

			a vormonom ser			
Validation Qualifier Code	Number of Records	Radionuclides	SW6010 (Metals)	SW8082 (PCBs)	SW8260 (VOCs)	SW8270 (SVOCs)
No V&V	464	464	0	0	0	0
J1	309	0	308	0	0	1
U1	1	0	1	0	0	0
VI	2250	0	390	14	329	1517
UJ1	1	0	1	0	0	0
Total	3025	464	700	14	329	1518
Total Validated	0%	0%	0%	0%	0%	0%
Percent Validated	0%	0%	0%	0%	0%	0%
Total Verified	2561	0	700	14	329	1518
Percent Verified	0 84661157	0	1	1	1	1
Percent Rejected	0%	0%	0%	0%	0%	0%

Key

VI V - Venfied Validated w/ no qualifications

J J1 - Estimated

UJ1 - No detection at the estimated detection limit

1 Venfied

### 5.0 REFERENCES

DOE, 1992-2001, Historical Release Reports for the Rocky Flats Plant, Rocky Flats Plant, Golden, Colorado, June

DOE, 1999, Order 414 1A, Quality Assurance

DOE, 2000, Rocky Flats Cleanup Agreement (RFCA), Attachment 5, March

DOE, 2001, Industrial Area Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, June

DOE, 2002a, Industrial Area Sampling and Analysis Plan Addendum #IA-03-02, Rocky Flats Environmental Technology Site, Golden, Colorado, November

DOE, 2002b, Environmental Restoration RFCA Standard Operating Protocol for Routine Soil Remediation, Rocky Flats Environmental Technology Site, Golden, Colorado, January

DOE, CDPHE and EPA, 2003, RFCA Modifications, Rocky Flats Environmental Technology Site, Golden, Colorado, June

EPA QA/G-4, 1994a, Guidance for the Data Quality Objective Process

EPA 540/R-94/012, 1994b, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review

EPA 540/R-94/013, 1994c, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review

EPA QA/G-9, 1998, Guidance for the Data Quality Assessment Process, Practical Methods for Data Analysis

Kaiser-Hill (K-H), 2002a, General Guidelines for Data Verification and Validation, DA-GR01-v1, October

K-H, 2002b, V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v1, October

K-H, 2002c, V&V Guidelines for Volatile Organics, DA-SS01-v1, October

K-H, 2002d, V&V Guidelines for Semivolatile Organics, DA-SS02-v1, October

K-H, 2002e, V&V Guidelines for Metals, DA-SS05-v1, October

Lockheed-Martin, 1997, Evaluation of Radiochemical Data Usability, ES/ER/MS-5

### **APPENDIX**

### IHSS GROUP 000-1 WILDLIFE REFUGE WORKER/ECOLOGICAL RECEPTOR ACTION LEVEL COMPARISON TABLE

52

THES	Location	Analyte	Soft	Sail End	Reenlt		RT /DI. Rackoround	Wildlife Refnoe	Frological	Unit
		d			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Trees of the last	Survey of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat	2000	
			Depth	(feet)	ŧ		Mean +25D	worker Action Level	Keceptor Action	
		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	1-06-			, , , , , , , , , , , , , , , , , , ,			Level	
000-101	CM47-003	Iron		0	30400	2500	18037	307000		mg/kg
000-101	CM47-003	Nickel	0	0	46 6	9	1491	20400	_	mg/kg
000-101	CM47-003	Strontium	0	0	204	250	48 94	613000		mg/kg
000-101	CM47-003	Arsenic	0	0	12	25	10 09	22.2	216	mg/kg
000-101	CM47-003	Chromium	0	0	423	90	16 99	268		mg/kg
000-101	CM47-004	Iron	0	0	31000	2500	18037	307000	_	mg/kg
000-101	CM47-004	Manganese	0	0	543	200	365 08	3480	-	mg/kg
000-101	CM47-004	Nickel	0	0	42.2	09	1491	20400		mg/kg
000-101	CM47-004	Potassium	0	0	24600	5000	2967 2	N/A		mg/kg
000-101	CM47-004	Strontum	0	0	242	250	48 94	613000	1	mg/kg
000-101	CM47-004	Chromium	0	0	633	90	16 99	768	_	mg/kg
000-101	CM47-004	Copper	0	0	762	300	18 06	40900		mg/kg
000-101	CM48-008	Iron	0	0	35500	2500	18037	307000		mg/kg
000-101	CM48-008	Manganese	0	0	518	200	365 08	3480		mg/kg
000-101	CM48-008	Nickel	0	0	486	99	1491	20400	—	mg/kg
000-101	CM48-008	Potassium	0	0	22900	5000	2967 2	N/A	_	mg/kg
000-101	CM48-008	Strontium	0	0	192	250	48 94	000£19		mg/kg
000-101	CM48-008	Arsenic	0	0	193	25	10 09	22.2	21 6	mg/kg
000-101	CM48-008	Barıum	0	0	681	150	141 26	26400		mg/kg
000-101	CM48-008	Chromium	0	0	28 8	90	16 99	268		mg/kg
000-101	CM48-008	Zinc	0	0	161	50	73 76	307000		mg/kg
000-101	CN47-000	Iron	0	0	35100	2500	18037	307000		mg/kg
000-101	CN47-000	Manganese	0	0	511	200	365 08	3480		mg/kg
000-101	CN47-000	Nickel	0	0	47.2	09	14 91	20400		mg/kg
000-101	CN47-000	Strontium	0	0	205	250	48 94	613000	_	mg/kg
000-101	CN47-000	Arsenic	0	0	16	25	10 09	22.2	216	mg/kg
000-101	CN47-000	Barıum	0	0	800	150	141 26	26400		mg/kg
000-101	CN47-001	Iron	0	0	33400	2500	18037	307000		mg/kg
000-101	CN47-001	Lead	0	0	562	20	54 62	0001	25 6	mg/kg
000-101	CN47-001	Nickel		0	398	99	1491	20400	1	mg/kg

CHI	•	, ,			3		-	A 3.11		T1
	Location	Analyte	Sou Begin	Son End Depth	Kesuit	KLIUL	Dackground Mean +2SD	Worker Action	Receptor	
*			Depth (feet)	(feet)				Level	Action Level	
000-101	CN47-001	Potassium	0	0	30500	2000	2967 2	N/A		mg/kg
000-101	CN47-001	Strontrum	0	0	261	250	48 94	613000		mg/kg
000-101	CN47-001	Arsenic	0	0	10.5	25	60 01	22.2	216	mg/kg
000-101	CN47-001	Copper	0	0	132	300	90 8 1	40900	1	mg/kg
000-101	CN47-001	Vanadıum	0	0	862	100	45 59	7150	433	mg/kg
000-101	CN48-000	Iron	0	0	39600	2500	18037	307000		mg/kg
000-101	CN48-000	Manganese	0	0	452	200	30 598	3480		mg/kg
000-101	CN48-000	Strontium	0	0	6/1	250	48 94	613000		mg/kg
000-101	CN48-000	Barıum	0	0	169	150	141 26	26400	1	mg/kg
101-000	CN48-000	Chromium	0	0	20	06	66 91	268	1	mg/kg
000-101	CN48-000	Calcium	0	0	17800	3000	4467	N/A		mg/kg
000-101	CQ47-000	Chromium	0	50	48	06	66 91	268	_	mg/kg
900-1310	900-1310 CM47-001	Iron	0	0.5	31400	2500	18037	307000		mg/kg
900-165	CO46-000	2,4,6-Tribromophenol	0	0.5	3300	0	N/A	N/A	1	ug/kg
900-165	CO46-000	Terphenyl-D14	0	0.5	2200	0	N/A	N/A	l	ug/kg
900-165	CO46-000	2-Fluorobiphenyl	0	0.5	2200	0	N/A	N/A	1	ug/kg
900-165	CO46-000	O-Fluorophenol	0	0.5	3300	0	N/A	N/A	1	ug/kg
900-165	CO46-000	Nitrobenzene-D5	0	90	2300	0	N/A	N/A		ug/kg
900-165	CO46-000	Phenol-D5	0	0.5	3200	0	N/A	N/A		ug/kg
900-165	CO46-000	Iron	0	0.5	~ 27300	2500	18037	307000	1	mg/kg
900-165	CO46-000	Manganese	0	0.5	557	200	365 08	3480		mg/kg
900-165	CO46-000	Nickel	0	0.5	33 4	09	1491	20400	İ	mg/kg
900-165	CO46-000	Potassium	0	0.5	25800	2000	2967 2	N/A	-	mg/kg
900-165	CO46-000	Strontium	0	0.5	207	250	48 94	613000	-	mg/kg
900-165	CO46-000	Arsenic	0	0.5	118	25	10 09	22.2	216	mg/kg
900-165	CO46-000	Barium	0	0.5	823	150	141 26	26400	-	mg/kg
900-165	CO46-000	Cadmium	0	0.5	441	85	191	962	l	mg/kg
900-165	CO46-000	Chromium	0	0.5	30	8	16 99	268	1	mg/kg
900-165	CO46-000	Copper	0	0.5	549	300	18 06	40900		mg/kg
900-165	CO46-000	Vanadıum	0	0.5	718	8	45 59	7150	433	mg/kg

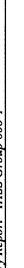
Table
Comparison
$\stackrel{\smile}{=}$
Level
\ction ]
ceptor /
il Re
gica
Ecol
ker/
Wor
Refuge
Wildlife
<b>900-1</b>
Group
IHSS

	CTTT		ار	T Wall					֓֞֜֝֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	
THESS	Location	Analyte	Soil	Soil End Depth	Result	RL/DL	Background Mean +2SD	Wildlife Refuge Worker Action	Ecological Receptor	
			Depth	(feet)				Level	Action	
900-165	CO46-000	Zinc	0	0.5	116	50	73.76	307000		mg/kg
900-165	CO46-000	Calcium	0	0.5	10700	3000	4467	N/A	1	mg/kg
900-165	CO46-001	2,4,6-Tribromophenol	0	0.5	3200	0	N/A	N/A	-	ug/kg
900-165	CO46-001	Pyrene	0	0.5	1600	710	N/A	22100000	_	ug/kg
900-165	CO46-001	Americium-241	0	0.5	0 53	4	0 02	76	0061	pCı/g
900-165	CO46-001	Uranium-235	0	0.5	0.1	1	60 0	8	0061	pC1/g
900-165	CO46-001	Terphenyl-D14	0	0.5	1900	0	N/A	N/A		ug/kg
900-165	CO46-001	Fluoranthene	0	0.5	1900	710	N/A	27200000		ug/kg
900-165	CO46-001	Benzo(K)Fluoranthene	0	0.5	750	710	N/A	349000	1,010,000	ug/kg
900-165	CO46-001	Chrysene	0	0.5	790	710	N/A	3490000	1	ug/kg
900-165	CO46-001	2-Fluorobiphenyl	0	0.5	2200	0	N/A	N/A		ug/kg
900-165	CO46-001	O-Fluorophenol	0	0.5	3300	0	N/A	N/A	-	ug/kg
900-165	CO46-001	Nitrobenzene-D5	0	0.5	2300	0	N/A	N/A		ug/kg
900-165	CO46-001	Phenol-D5	0	0.5	3200	0	N/A	N/A		ug/kg
900-165	CO46-001	Benzo(A)Pyrene	0	0.5	750	710	N/A	3490	25,700	ug/kg
900-165	CO46-001	Benzo(A)Anthracene	0	0.5	750	710	N/A	34900	800,000	ug/kg
900-165	CO46-001	Iron	0	0.5	27300	2500	18037	307000	_	mg/kg
900-165	CO46-001	Lead	0	0.5	63.2	20	54 62	1000	25 6	mg/kg
900-165	CO46-001	Manganese	0	0.5	473	200	365 08	3480	1	mg/kg
900-165	CO46-001	Nickel	0	0.5	47.3	60	1491	20400	1	mg/kg
900-165	CO46-001	Potassium	0	0.5	26300	2000	2967 2	N/A	1	mg/kg
900-165	CO46-001	Strontium	0	0.5	229	250	48 94	613000	i	mg/kg
900-165	CO46-001	Barıum	0	0.5	798	150	141 26	26400	1	mg/kg
900-165	CO46-001	Cadmium	0	0.5	4 19	85	191	962	1	mg/kg
900-165	CO46-001	Chromium	0	0.5	86.5	90	16 99	268		mg/kg
900-165	CO46-001	Copper	0	0.5	103	300	18 06	40900	1	mg/kg
900-165	CO46-001	Vanadıum	0	0.5	873	100	45 59	7150	433	mg/kg
900-165	CO46-001	Zinc	0	0.5	216	50	73.76	307000	-	mg/kg
900-165	CO46-001	Calcium	0	0.5	19500	3000	4467	N/A	-	mg/kg
900-165	CO46-001	Phenanthrene	0	0.5	1400	710	N/A	N/A	1	ug/kg

THEE	Locotion	Amoluto	0,00	CAII Dad	Doorelle	DY WI	Doobonound	Wildlife Define	Toplogical	Tagit.
		A CHARLE	Begin	Depth			Mean +2SD	Worker Action	Receptor	
			Depth (feet)	(feet)		*		Level	Action Level	
900-165	CP46-000	2,4,6-Tribromophenol	0	0.5	3800	0	N/A	N/A	1	ug/kg
900-165	CP46-000	Uranium-235	0	0.5	910	-	600	8	1900	pC1/g
900-165	CP46-000	Terphenyl-D14	0	0.5	2500	0	N/A	N/A		ug/kg
900-165	CP46-000	2-Fluorobiphenyl	0	50	2300	0	N/A	N/A		ug/kg
900-165	CP46-000	O-Fluorophenol	0	50	3600	0	N/A	N/A	-	ug/kg
900-165	CP46-000	Nitrobenzene-D5	0	90	2500	0	N/A	N/A	-	ug/kg
900-165	CP46-000	Phenol-D5	0	0.5	3500	0	N/A	N/A		ug/kg
900-165	CP46-000	Iron	0	90	28400	2500	18037	307000	•	mg/kg
900-165	CP46-000	Manganese	0	0.5	476	200	365 08	3480	1	mg/kg
900-165	CP46-000	Nickel	0	0.5	364	09	1491	20400		mg/kg
900-165	CP46-000	Potassium	0	50	22700	0005	2967 2	N/A		mg/kg
900-165	CP46-000	Strontium	0	0.5	194	250	48 94	613000		mg/kg
900-165	CP46-000	Arsenic	0	<b>S</b> 0	12.4	25	60 01	22.2	216	mg/kg
900-165	CP46-000	Barıum	0	0.5	748	150	141 26	26400	ı	mg/kg
900-165	CP46-000	Cadmium	0	90	3 93	\$8	191	962	_	mg/kg
900-165	CP46-000	Chromium	0	0.5	39 6	06	16 99	268		mg/kg
900-165		Copper	0	0.5	67.4	300	18 06	40900		mg/kg
900-165	CP46-000	Vanadıum	0	50	101	100	45 59	7150	433	mg/kg
900-165	CP46-000	Calcium	0	0.5	10400	3000	4467	N/A	1	mg/kg
900-165	CP46-001	2,4,6-Tribromophenol	0	50	3800	0	N/A	N/A		ug/kg
900-165	CP46-001	Americium-241	0	50	0.2	4	0 02	76	0061	pCı/g
900-165	CP46-001	Terphenyl-D14	0	0.5	2600	0	N/A	N/A		ug/kg
900-165	CP46-001	2-Fluorobiphenyl	0	0.5	2300	0	N/A	N/A		ug/kg
900-165	CP46-001	O-Fluorophenol	0	50	3700	0	N/A	N/A	ı	ug/kg
900-165	CP46-001	Nitrobenzene-D5	0	0.5	2600	0	N/A	N/A	ı	ug/kg
900-165	CP46-001	Phenol-D5	0	0.5	3700	0	N/A	N/A		ug/kg
900-165	CP46-001	Iron	0	0.5	31400	2500	18037	307000		mg/kg
900-165	CP46-001	Nickel	0	0.5	393	09	1491	20400		mg/kg
900-165	CP46-001	Potassium	0	0.5	18600	2000	2967 2	N/A	1	mg/kg
900-165	CP46-001	Strontium	0	0.5	179	250	48 94	613000	1	mg/kg

IHSS	Location	Analyte	Soil	Soft End	Result	RIADE	RI/DI Background	Wildlife Refuge	Ecological	Chit
!			Begin	Deoth	**************************************	2 *** 11	Mean +2SD	Worker Action		
			Depth	(feet)		•		Level	Action	
			(feet)	ļ					Level	
900-165	CP46-001	Arsenic	0	0.5	13.9	25	10 09	22.2	216	mg/kg
900-165	CP46-001	Barnum	0	90	622	150	141 26	26400	-	mg/kg
900-165	CP46-001	Chromium	0	<b>50</b>	35.8	06	66 91	268		mg/kg
900-165	CP46-001	Copper	0	\$0	138	300	90 81	40900		mg/kg
900-165	CP46-001	Vanadıum	0	50	175	100	45 59	7150	433	mg/kg
900-165	CP46-001	Zinc	0	90	112	20	13.76	307000		mg/kg
900-165	CP46-001	Calcium	0	0.5	20500	3000	4467	N/A	_	mg/kg
900-165	CP46-002	2,4,6-Tribromophenol	0	90	2700	0	N/A	N/A		ug/kg
900-165	CP46-002	Americium-241	0	0.5	03	4	0 02	76	0061	pCı/g
900-165	CP46-002	Terphenyl-D14	0	50	2000	0	N/A	N/A		ug/kg
900-165	CP46-002	2-Fluorobiphenyl	0	\$0	1900	0	V/A	N/A	-	ug/kg
900-165	CP46-002	O-Fluorophenol	0	0.5	2700	0	N/A	N/A		ug/kg
900-165	CP46-002	Nitrobenzene-D5	0	\$0	2100	0	N/A	N/A	-	ug/kg
900-165	CP46-002	Phenol-D5	0	<b>\$</b> 0	0067	0	V/A	N/A		ug/kg
900-165	CP46-002	Iron	0	50	19700	2500	18037	307000		mg/kg
900-165	CP46-002	Manganese	0	0.5	206	200	365 08	3480	1	mg/kg
900-165	CP46-002	Nickel	0	0.5	35	09	14 91	20400		mg/kg
900-165	CP46-002	Potassium	0	90	16200	2000	2967 2	N/A	_	mg/kg
900-165	CP46-002	Strontium	0	0.5	108	250	48 94	613000	1	mg/kg
900-165	CP46-002	Barıum	0	90	280	150	141 26	26400		mg/kg
900-165	CP46-002	Chromium	0	0.5	21	06	16 99	268	1	mg/kg
900-165	CP46-002	Copper	0	50	523	300	90 81	40900		mg/kg
900-165	CP46-002	Vanadıum	0	0.5	141	100	45 59	7150	433	mg/kg
900-165	CP46-002	Calcium	0	0.5	5480	3000	4467	N/A	_	mg/kg
900-165	CP46-003	2,4,6-Tribromophenol	0	50	2700	0	N/A	N/A		ug/kg
900-165	CP46-003	Uranium-235	0	0.5	0 18	1	60 0	8	1900	pC1/g
900-165	CP46-003	Terphenyl-D14	0	0.5	2000	0	N/A	N/A		ug/kg
900-165	CP46-003	2-Fluorobiphenyl	0	0.5	1700	0	N/A	N/A	1	ug/kg
900-165	CP46-003	O-Fluorophenoi	0	0.5	2700	0	N/A	N/A	1	ug/kg
900-165	CP46-003	Nitrobenzene-D5	0	0.5	1900	0	N/A	N/A	1	ug/kg

ŀ



	A market	15.0	C	Al	nt Ar	The street of	VIVEL-1126. Defe-	Pealecter	11-:4
Location	Analyte	Soil Begin Depth (feet)	Soll End Depth (feet)	Kesuit	KL/DL	Background Mean +2SD	wndine keruge Worker Action Level	Ecological Receptor Action Level	
CP46-003	Phenol-D5	0	0.5	2700	0	N/A	N/A		ug/kg
CP46-003	Iron	0	0.5	29500	2500	18037	307000	-	mg/kg
CP46-003	Manganese	0	0.5	480	200	365 08	3480	-	mg/kg
CP46-003	Nickel	0	0.5	32.1	09	14 91	20400	_	mg/kg
CP46-003	Potassium	0	0.5	23100	2000	2967 2	V/A	-	mg/kg
CP46-003	Strontium	0	0.5	217	250	48 94	613000		mg/kg
CP46-003	Barıum	0	0.5	805	150	141 26	26400	-	mg/kg
CP46-003	Chromium	0	0.5	29 8	8	16 99	268	I	mg/kg
CP46-003	Copper	0	0.5	696	300	18 06	40900	I	mg/kg
CP46-003	Vanadıum	0	0.5	6 0/	100	45 59	7150	433	mg/kg
CP46-003	Zinc	0	0.5	201	20	73.76	307000	-	mg/kg
CP46-003	Calcium	0	0.5	12000	3000	4467	N/A	I	mg/kg
CQ45-000	2,4,6-Tribromophenol	0	0.5	3100	0	N/A	N/A	-	ug/kg
CQ45-000	Uranium-235	0	0.5	0 18	-	60 0	8	1900	pCı/g
CQ45-000	Terphenyl-D14	0	0.5	2300	0	N/A	N/A	1	ug/kg
CQ45-000	2-Fluorobiphenyl	0	0.5	1900	0	N/A	N/A		ug/kg
CQ45-000	O-Fluorophenol	0	90	3100	0	N/A	N/A		ug/kg
CQ45-000	Nitrobenzene-D5	0	0.5	2100	0	N/A	N/A	-	ug/kg
CQ45-000	Phenol-D5	0	0.5	3100	0	N/A	N/A	-	ug/kg
CQ45-000	Iron	0	0.5	~ 22600	2500	18037	307000	_	mg/kg
CQ45-000	Nickel	0	0.5	30.5	09	1491	20400		mg/kg
CQ45-000	Potassium	0	0.5	15500	2000	2967 2	N/A		mg/kg
CQ45-000	Strontium	0	0.5	133	250	48 94	613000	-	mg/kg
CQ45-000	Arsenic	0	0.5	101	25	10 09	22 2	216	mg/kg
CQ45-000	Barıum	0	0.5	537	150	141 26	26400	_	mg/kg
CQ45-000	Chromium	0	0.5	362	06	16 99	268	-	mg/kg
CQ45-000	Copper	0	0.5	583	300	18 06	40900	1	mg/kg
CQ45-000	Vanadıum	0	0.5	126	100	45 59	7150	433	mg/kg
CQ45-000	Zinc	0	0.5	79.2	20	73 76	307000	1	mg/kg
CO45-000	Cale	٥	0.6	00200	3000	2777	****		2//2

|

TUCC	T costion	Hon Anoluto Coll	LEON L	Cail End	Doenite	DT //DT	Call End   Damit   DI /II   Backerson	Wildlife Define	Poslogical	Unit
COTT	Location	Alianyte	1000	Den Ella	1mesu		Dacrasi Junia	Weller Adde	Percentan	
			Begin Denth	(feet)			Mean +45D	Worker Action	Keceptor   Action	
			(feet)	(man)				5	Level	
900-165	CQ46-000	2,4,6-Tribromophenol	0	0.5	2800	0	N/A	N/A	1	ug/kg
900-165	CQ46-000	Uranium-235	0	0.5	0 19	1	60 0	8	1900	pCı/g
900-165	CQ46-000	Terphenyl-D14	0	0.5	2200	0	N/A	N/A	-	ug/kg
900-165	CQ46-000	2-Fluorobiphenyl	0	<b>\$0</b>	1900	0	N/A	N/A		ug/kg
900-165	CQ46-000	O-Fluorophenol	0	90	3100	0	N/A	N/A		ug/kg
900-165	CQ46-000	Nitrobenzene-D5	0	0.5	2200	0	N/A	N/A	-	ug/kg
900-165	CQ46-000	Phenol-D5	0	50	3100	0	N/A	N/A	1	ug/kg
900-165	CQ46-000	Iron	0	50	30700	2500	18037	307000	1	mg/kg
900-165	CQ46-000	Manganese	0	50	537	200	365 08	3480	1	mg/kg
900-165	CQ46-000	Nickel	0	90	43 1	09	1491	20400	1	mg/kg
900-165	CQ46-000	Potassium	0	<b>S</b> 0	17200	2000	2967 2	N/A	_	mg/kg
900-165	CQ46-000	Strontium	0	\$0	191	250	48 94	613000	-	mg/kg
900-165	CQ46-000	Barıum	0	90	548	150	141 26	26400		mg/kg
900-165	CQ46-000	Chromium	0	0.5	38 4	06	66 91	268		mg/kg
900-165	CQ46-000	Copper	0	0.5	125	300	90 81	40900	-	mg/kg
900-165	CQ46-000	Vanadıum	0	90	132	100	45 59	7150	433	mg/kg
900-165	CQ46-000	Zinc	0	90	864	20	73 76	307000	-	mg/kg
900-165	CQ46-000	Calcium	0	0.5	26200	3000	4467	N/A	1	mg/kg
900-165	CQ46-001	2,4,6-Tribromophenol	0	0.5	3100	0	N/A	N/A	1	ug/kg
900-165	CQ46-001	Terphenyl-D14	0	50	2000	0	N/A	N/A	_	ug/kg
900-165	CQ46-001	2-Fluorobiphenyl	0	0.5	1900	0	N/A	N/A	1	ug/kg
900-165	CQ46-001	O-Fluorophenol	0	0.5	3000	0	N/A	N/A	-	ug/kg
900-165	CQ46-001	Nitrobenzene-D5	0	0.5	2100	0	N/A	N/A	-	ug/kg
900-165	CQ46-001	Phenol-D5	0	0.5	3000	0	N/A	N/A	-	ug/kg
900-165	CQ46-001	Iron	0	0.5	25300	2500	18037	307000	1	mg/kg
900-165	CQ46-001	Manganese	0	0.5	436	200	365 08	3480		mg/kg
900-165	CQ46-001	Nickel	0	0.5	35.7	99	1491	20400		mg/kg
900-165	CQ46-001	Potassium	0	0.5	17200	2000	2967 2	N/A	1	mg/kg
900-165	CQ46-001	Strontium	0	0.5	119	250	48 94	613000	I	mg/kg
900-165	CQ46-001	Barıum	0	0.5	899	150	141 26	26400		mg/kg

Comparison Table	
Level	
Action	
Receptor,	
logical R	
rker/Ec	
fuge Wo	
ildlife Re	
000-1 Wi	
Group (	
IHSS	

IHSS	Location	Analyte	Soil	Soil End	Result	RLDL	RL/DL Background	Wildlife Refuge	Ecological	Unit
			Begin Depth	Depth (feet)	* *	*	Mean +2SD	Worker Action Level		
			(feet)	******	,	i,			Level	
900-165	CQ46-001	Chromium	0	0.5	40.5	90	66 91	268	-	mg/kg
900-165	CQ46-001	Copper	0	0.5	9 69	300	90 81	40900	1	mg/kg
900-165	CQ46-001	Vanadıum	0	0.5	143	100	45 59	7150	433	mg/kg
900-165	CQ46-001	Zinc	0	0.5	996	50	73.76	307000		mg/kg
900-165	CQ46-001	Calcium	0	0.5	13600	3000	4467	N/A	1	mg/kg
900-165	CQ46-002	2,4,6-Tribromophenol	0	0.5	3100	0	N/A	N/A	1	ug/kg
900-165	CQ46-002	Uranıum-235	0	0.5	610	1	600	8	1900	pCı/g
900-165	CQ46-002	Terphenyl-D14	0	0.5	2100	0	N/A	N/A	1	ug/kg
900-165	CQ46-002	2-Fluorobiphenyl	0	0.5	1900	0	N/A	N/A	-	ug/kg
900-165	CQ46-002	O-Fluorophenol	0	0.5	3100	0	N/A	N/A		ug/kg
900-165	CQ46-002	Nitrobenzene-D5	0	0.5	2100	0	N/A	N/A	-	ug/kg
900-165	CQ46-002	Phenol-D5	0	0.5	3000	0	N/A	N/A	1	ug/kg
900-165	CQ46-002	Iron	0	0.5	21700	2500	18037	307000	1	mg/kg
900-165	CQ46-002	Nickel	0	0.5	292	09	14 91	20400	1	mg/kg
900-165	CQ46-002	Potassium	0	0.5	17000	2000	2967 2	N/A		mg/kg
900-165	CQ46-002	Strontium	0	0.5	114	250	48 94	613000	1	mg/kg
900-165	CQ46-002	Arsenic	0	0.5	114	25	10 09	22.2	216	mg/kg
900-165	CQ46-002	Barıum	0	0.5	632	150	141 26	26400		mg/kg
900-165	CQ46-002	Chromium	0	0.5	47.9	06	16 99	268	1	mg/kg
900-165	CQ46-002	Copper	0	0.5	556	300	18 06	40900		mg/kg
900-165	CQ46-002	Vanadıum	0	0.5	105	901	45 59	7150	433	mg/kg
900-165	CQ46-002	Zinc	0	0.5	804	50	73.76	307000	-	mg/kg
900-165	CQ46-002	Calcrum	0	0.5	11900	3000	4467	N/A		mg/kg
900-165	CQ46-003	2,4,6-Tribromophenol	0	0.5	2700	0	N/A	N/A	1	ug/kg
900-165	CQ46-003	Uranıum-235	0	0.5	0.15	-	600	8	1900	pCu/g
900-165	CQ46-003	Terphenyl-D14	0	0.5	1900	0	N/A	N/A	-	ug/kg
900-165	CQ46-003	2-Fluorobiphenyl	0	0.5	0091	0	N/A	N/A	-	ug/kg
900-165	CQ46-003	O-Fluorophenol	0	0.5	2100	0	N/A	N/A		ug/kg
900-165	CQ46-003	Nitrobenzene-D5	0	0.5	1400	0	N/A	N/A	_	ug/kg
900-165	CQ46-003	Phenol-D5	0	0.5	2200	0	N/A	N/A		ug/kg

			.							
SE E	Location	Analyte	Soil Begin	Soil End Depth	Result	RLDL	Background Mean +2SD	Wildlife Refuge Worker Action	Ecological Receptor	Cuit
			Depth (feet)	(feet)				Level	Action Level	
900-165	CQ46-003	Iron	0	0.5	28300	2500	18037	307000	1	mg/kg
900-165	CQ46-003	Manganese	0	0.5	499	700	365 08	3480	-	mg/kg
900-165	CQ46-003	Nickel	0	0.5	38 1	09	1491	20400		mg/kg
900-165	CQ46-003	Potassium	0	0.5	19200	2000	2967 2	N/A	1	mg/kg
900-165	CQ46-003	Strontium	0	0.5	483	250	48 94	613000		mg/kg
900-165	CQ46-003	Arsenic	0	0.5	109	25	60 01	22.2	216	mg/kg
900-165	CQ46-003	Barıum	0	0.5	832	150	141 26	26400		mg/kg
900-165	CQ46-003	Chromium	0	0.5	48 9	06	66 91	268		mg/kg
900-165	CQ46-003	Copper	0	0.5	743	300	90 81	40900		mg/kg
900-165	CQ46-003	Vanadıum	0	0.5	9 68	100	45 59	7150	433	mg/kg
900-165	CQ46-003	Zinc	0	0.5	111	20	73 76	307000	1	mg/kg
900-165	CQ46-003	Calcium	0	0.5	87100	3000	4467	N/A		mg/kg
900-165	CQ46-004	2,4,6-Tribromophenol	0	0.5	3200	0	N/A	N/A	_	ug/kg
900-165	CQ46-004	Uranium-235	0	0.5	0 23	1	60 0	8	0061	pCı/g
900-165	CQ46-004	Terphenyl-D14	0	0.5	2200	0	N/A	N/A	1	ug/kg
900-165	CQ46-004	2-Fluorobiphenyl	0	0.5	2000	0	N/A	N/A	-	ug/kg
900-165	CQ46-004	O-Fluorophenol	0	0.5	3100	0	N/A	N/A	-	ug/kg
900-165	CQ46-004	Nitrobenzene-D5	0	0.5	2200	0	N/A	N/A		ug/kg
900-165	CQ46-004	Phenol-D5	0	0.5	3000	0	N/A	N/A		ug/kg
900-165	CQ46-004	Iron	0	0.5	29700	2500	18037	307000		mg/kg
900-165	CQ46-004	Manganese	0	0.5	534	200	365 08	3480		mg/kg
900-165	CQ46-004	Nickel	0	0.5	34 1	90	1491	20400	_	mg/kg
900-165	CQ46-004	Potassium	0	0.5	22100	5000	2967 2	N/A	-	mg/kg
900-165	CQ46-004	Strontium	0	0.5	251	250	48 94	613000		mg/kg
900-165	CQ46-004	Barıum	0	0.5	727	150	141 26	26400	_	mg/kg
900-165	CQ46-004	Chromium	0	0.5	283	90	16 99	268		mg/kg
900-165	CQ46-004	Copper	0	0.5	74.5	300	18 06	40900		mg/kg
900-165	CQ46-004	Vanadıum	0	0.5	68	100	45 59	7150	433	mg/kg
900-165	CQ46-004	Zinc	0	0.5	115	50	73.76	307000	1	mg/kg
900-165	CQ46-004	Calcium	0	0.5	28400	3000	4467	N/A		mg/kg

Location	Analyte	Soil	Soil End	Result	RL/DL	Background	Wildlife Refuge	Ecological	Unit
	•	Begin Depth (feet)	Depth (feet)	*		Mean +2SD	Worker Action Level	Receptor Action Level	
14	2,4,6-Tribromophenol	0	0.5	2700	0	N/A	N/A	-	ug/kg
	Uranıum-235	0	0.5	910	_	600	8	0061	pC1/g
	Terphenyl-D14	0	0.5	2000	0	N/A	N/A	-	ug/kg
	2-Fluorobiphenyl	0	0.5	1900	0	N/A	N/A	_	ug/kg
	O-Fluorophenol	0	0.5	2800	0	N/A	N/A		ug/kg
	Nitrobenzene-D5	0	0.5	2000	0	N/A	N/A	1	ug/kg
	Phenol-D5	0	0.5	2800	0	N/A	N/A	***************************************	ug/kg
	Iron	0	0.5	21200	2500	18037	307000		mg/kg
	Nickel	0	0.5	27.4	09	14 91	20400		mg/kg
9	Potassium	0	0.5	17300	2000	2967 2	N/A		mg/kg
ايزا	Strontium	0	0.5	104	250	48 94	000£19	-	mg/kg
7	Arsenic	0	0.5	103	25	60 01	22.2	917	mg/kg
ä	Barıum	0	0.5	629	150	141 26	26400	******	mg/kg
וסו	Chromium	0	0.5	35 4	06	16 99	268		mg/kg
ŭ	Copper	0	0.5	34.7	300	18 06	40900	-	mg/kg
>	Vanadium	0	0.5	617	100	45 59	7150	433	mg/kg
Ü	Calcium	0	0.5	0296	3000	4467	N/A		mg/kg
7,	2,4,6-Tribromophenol	0	0.5	3100	0	N/A	V/A	-	ug/kg
5	Uranium-235	0	0.5	0.2		600	8	0061	pC1/g
Ţ	Terphenyl-D14	0	0.5	> 2000	0	N/A	N/A		ug/kg
2-	2-Fluorobiphenyl	0	0.5	1900	0	N/A	N/A		ug/kg
Ö	O-Fluorophenol	0	0.5	2800	0	N/A	N/A		ug/kg
$\bar{z}$	Nitrobenzene-D5	0	0.5	2000	0	N/A	N/A		ug/kg
Ph	Phenol-D5	0	0.5	2800	0	N/A	N/A		ug/kg
ĭ	Iron	0	0.5	26500	2500	18037	307000	1	mg/kg
z	Nickel	0	0.5	35 5	09	14 91	20400		mg/kg
2	Potassium	0	0.5	17800	2000	2967 2	N/A	1	mg/kg
S	Strontium	0	0.5	129	250	48 94	613000	1	mg/kg
B	Barium	0	0.5	671	150	141 26	26400	1	mg/kg
Οl	Chromium	0	0.5	37.5	8	16 99	268	1	mg/kg

THE	Location	Anoluto	South South Wildlife Definite   Dr. Mt   Bookaround   Wildlife Define   Fron	Call Dad	Deenlik	pr.mi	Rockaround	Wildlife Define	Prological	I I I
			Begin	Depth			Mean +2SD	Worker Action	Receptor	
		4	Depth	(reet)		<b>4</b>		Level	Action	
900-165	CO46-006	Copper	0	0.5	51	300	90 81	40900		mg/kg
900-165	CQ46-006	Vanadıum	0	0.5	131	82	45 59	7150	433	mg/kg
900-165	CQ46-006	Zinc	0	0.5	988	50	73.76	307000	1	mg/kg
900-165	CQ46-006	Calcium	0	0.5	10800	3000	4467	N/A		mg/kg
900-176	CM45-001	2,4,6-Tribromophenol	0	0	3100	0	N/A	N/A	ŀ	ug/kg
900-176	CM45-001	Americium-241	0	0	2	4	0 02	9/	0061	pC1/g
900-176	CM45-001	Uranium-235	0	0	0.1	1	60 0	8	1900	pC1/g
900-176	CM45-001	Terphenyl-D14	0	0	1800	0	N/A	N/A	-	ug/kg
900-176	CM45-001	2-Fluorobiphenyl	0	0	2000	0	N/A	N/A	1	ug/kg
900-176	CM45-001	O-Fluorophenol	0	0	3000	0	N/A	N/A		ug/kg
900-176	CM45-001	Nitrobenzene-D5	0	0	2100	0	N/A	N/A	1	ug/kg
900-176	CM45-001	Phenol-D5	0	0	3100	0	N/A	N/A		ug/kg
900-176	CM45-001	Iron	0	0	27700	2500	18037	307000		mg/kg
900-176		Lead	0	0	75.1	20	54 62	1000	25 6	mg/kg
900-176	CM45-001	Manganese	0	0	621	200	365 08	3480		mg/kg
900-176	CM45-001	Nickel	0	0	37.6	09	14 91	20400		mg/kg
900-176	CM45-001	Potassium	0	0	23500	2000	2967 2	N/A		mg/kg
900-176	CM45-001	Strontium	0	0	222	250	48 94	613000		mg/kg
900-176	CM45-001	Barıum	0	0	825	150	141 26	26400	1	mg/kg
900-176	CM45-001	Cadmium	0	0	6 03	85	191	962	_	mg/kg
900-176	CM45-001	Chromium	0	0	353	06	66 91	268	1	mg/kg
900-176	CM45-001	Copper	0	0	55	300	18 06	40900		mg/kg
900-176	CM45-001	Vanadıum	0	0	601	100	45 59	7150	433	mg/kg
900-176	CM45-001	Zinc	0	0	214	50	73 76	307000	-	mg/kg
900-176	CM45-001	Calcium	0	0	10900	3000	4467	N/A		mg/kg
900-176	CM46-001	B1s(2-Ethylhexyl)Phthalate	0	0	1200	720	N/A	1970000	1	ug/kg
900-176	CM46-001	2,4,6-Tribromophenol	0	0	2900	0	N/A	N/A	1	ug/kg
900-176	CM46-001	Americium-241	0	0	15	4	0 02	76	1900	pCı/g
900-176	CM46-001	Uranıum-235	0	0	0 17	-	600	œ	1900	pC1/g
900-176	CM46-001	Terphenyl-D14	0	0	1900	0	N/A	N/A	1	ug/kg

64

THES	Location	Amolieta	TIVE OF	Sall Dad	Describe	TW IG	Bookoronad	Wildlife Define	Toological	Timit.
	TOCHETOTI	Things of		70 L			Date of Dan	Wilding Actuals	LAUIUSICAL	
		A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	Depth	(Leed)		*. \$1   41   250	Mean +25D	worker Action Level	Keceptor Action	
900-176	CM46-001	2-Fluorobiphenyl	0	0	0061	0	N/A	N/A	1	ug/kg
900-176	CM46-001	O-Fluorophenol	0	0	2600	0	A/N	N/A		ug/kg
900-176	CM46-001	Nitrobenzene-D5	0	0	1900	0	N/A	N/A	1	ug/kg
900-176	CM46-001	Phenol-D5	0	0	2800	0	N/A	N/A	1	ug/kg
900-176	CM46-001	Iron	0	0	33100	2500	18037	307000	1	mg/kg
900-176	CM46-001	Lead	0	0	236	20	54 62	1000	25 6	mg/kg
900-176	CM46-001	Manganese	0	0	525	200	365 08	3480		mg/kg
900-176	CM46-001	Nickel	0	0	694	09	1491	20400	1	mg/kg
900-176	CM46-001	Potassium	0	0	19000	2000	2967 2	N/A		mg/kg
900-176	CM46-001	Strontium	0	0	230	250	48 94	613000		mg/kg
900-176	CM46-001	Arsenic	0	0	156	25	10 09	22.2	216	mg/kg
900-176	CM46-001	Barıum	0	0	999	150	141 26	26400	ı	mg/kg
900-176	CM46-001	Cadmium	0	0	414	85	191	962		mg/kg
900-176	CM46-001	Chromium	0	0	125	06	66 91	268	1	mg/kg
900-176	CM46-001	Copper	0	0	86.5	300	18 06	40900		mg/kg
900-176	CM46-001	Vanadıum	0	0	158	100	45 59	7150	433	mg/kg
900-176	CM46-001	Zinc	0	0	3010	20	73.76	307000		mg/kg
900-176	CM46-001	Calcium	0	0	84100	3000	4467	N/A		mg/kg
900-176	CM46-001	Selenium	0	0	1 96	20	1 22	5110		mg/kg
900-176	CM46-002	Bis(2-Ethylhexyl)Phthalate	0	0	75000	14000	N/A	1970000		ug/kg
900-176	CM46-002	Aroclor 1254	0	0	99	4.5	N/A	12400	371,000	ug/kg
900-176	CM46-002	Aroclor 1260	0	0	28	5	N/A	12400	1	ug/kg
900-176	CM46-002	2,4,6-Tribromophenol	0	0	2900	0	N/A	N/A	1	ug/kg
900-176	CM46-002	Americium-241	0	0	0 83	4	0 02	92	1900	pCı/g
900-176	CM46-002	Uranium-235	0	0	0 25		60 0	8	1900	pCı/g
900-176	CM46-002	Terphenyl-D14	0	0	1800	0	N/A	N/A	1	ug/kg
900-176	CM46-002	2-Fluorobiphenyl	0	0	2100	0	N/A	N/A	1	ug/kg
900-176	CM46-002	O-Fluorophenol	0	0	3000	0	N/A	N/A	1	ug/kg
900-176	CM46-002	Nitrobenzene-D5	0	0	2200	0	N/A	N/A	1	ug/kg
900-176	CM46-002	Phenol-D5	0	0	3000	0	N/A	N/A		ug/kg

THEE	Location	tion Amolato	) livo	Coll End	Doenle	DI MI	Rockaround	Cail End   Decelt   DI MI   Real-pressing   Wildlife Define   Free	Foological	Ilmit
			Begin Depth	Depth (feet)			Mean +2SD	Worker Action Level	Receptor Action	
		, , , , , , , , , , , , , , , , , , ,	(feet)		*				Level	
900-176	CM46-002	Nickel	0	0	50 6	90	1491	20400	1	mg/kg
900-176	CM46-002	Nickel	0	0	50 6	99	1491	20400	1	mg/kg
900-176	CM46-002	Potassium	0	0	33000	2000	2967 2	N/A		mg/kg
900-176	CM46-002	Strontium	0	0	307	250	48 94	000E19	-	mg/kg
900-176	CM46-002	Arsenic	0	0	681	25	10 06	22.2	216	mg/kg
900-176	CM46-002	Bartum	0	0	655	150	141 26	26400	1	mg/kg
900-176	CM46-002	Copper	0	0	62 5	300	18 06	40900		mg/kg
900-176	CM46-002	Vanadıum	0	0	73 1	100	45 59	7150	433	mg/kg
900-176	CM46-002	Zinc	0	0	9 68	50	73 76	307000	1	mg/kg
900-176	CM46-002	Zinc	0	0	9 68	50	73 76	307000	-	mg/kg
900-176	CM46-002	Calcium	0	0	8030	3000	4467	N/A		mg/kg
900-176	CN44-000	2,4,6-Tribromophenol	0	0	3300	0	N/A	N/A	1	ug/kg
900-176	CN44-000	Americium-241	0	0	0 91	4	0 02	76	1900	pC1/g
900-176	CN44-000	Uranıum-235	0	0	0 23	1	600	8	1900	pCı/g
900-176	CN44-000	Terphenyl-D14	0	0	2200	0	N/A	N/A	1	ug/kg
900-176	CN44-000	2-Fluorobiphenyl	0	0	2100	0	N/A	N/A	1	ug/kg
900-176	CN44-000	O-Fluorophenol	0	0	3200	0	N/A	N/A	-	ug/kg
900-176	CN44-000	Nitrobenzene-D5	0	0	2400	0	N/A	N/A	1	ug/kg
900-176	CN44-000	Phenol-D5	0	0	3300	0	N/A	N/A		ug/kg
900-176	CN44-000	Iron	0	0	41400	2500	18037	307000		mg/kg
900-176	CN44-000	Manganese	0	0	989	200	365 08	3480		mg/kg
900-176	CN44-000	Nickel	0	0	414	- 60	1491	20400	1	mg/kg
900-176	CN44-000	Potassium	0	0	26100	5000	2967 2	N/A	1	mg/kg
900-176	CN44-000	Strontium	0	0	214	250	48 94	613000		mg/kg
900-176	CN44-000	Arsenic	0	0	119	25	10 09	22.2	216	mg/kg
900-176	CN44-000	Barıum	0	0	745	150	141 26	26400	1	mg/kg
900-176	CN44-000	Chromium	0	0	356	90	16 99	268	1	mg/kg
900-176	CN44-000	Copper	0	0	113	300	18 06	40900	-	mg/kg
900-176	CN44-000	Vanadıum	0	0	140	100	45 59	7150	433	mg/kg
900-176	CN44-000	Zinc	0	0	210	50	73.76	307000	-	mg/kg

					8					
IHSS	Location	Analyte	Soil	Soil End	Result	RLDL	Background		Ecological	Unit
			Begin	Depth			Mean +2SD	Worker Action	Receptor	
<del></del>			Depth (feet)	(feet)				Level	Action I evel	
900-176	CN44-000	Calcium	0	0	17400	3000	4467	N/A	1	mg/kg
900-176	CN45-000	2,4,6-Tribromophenol	0	0	3500	0	N/A	N/A		ug/kg
900-176	CN45-000	Americium-241	0	0	13	4	0 02	76	1900	pCı/g
900-176	CN45-000	Uranium-235	0	0	0 22	1	600	8	1900	pCı/g
900-176	CN45-000	Terphenyl-D14	0	0	2400	0	N/A	N/A		ug/kg
900-176	CN45-000	2-Fluorobiphenyl	0	0	2100	0	N/A	N/A	ı	ug/kg
900-176	CN45-000	O-Fluorophenol	0	0	3300	0	N/A	N/A	1	ug/kg
900-176	CN45-000	Nitrobenzene-D5	0	0	2400	0	N/A	N/A	1	ug/kg
900-176	CN45-000	Phenol-D5	0	0	3200	0	N/A	N/A		ug/kg
900-176	CN45-000	Iron	0	0	38300	2500	18037	307000	1	mg/kg
900-176	CN45-000	Lead	0	0	92.7	20	54.62	0001	25 6	mg/kg
900-176	CN45-000	Manganese	0	0	279	200	365 08	3480		mg/kg
900-176	CN45-000	Nickel	0	0	42 6	09	1491	20400		mg/kg
900-176	CN45-000	Potassium	0	0	29300	2000	2967 2	N/A		mg/kg
900-176	CN45-000	Strontium	0	0	261	250	48 94	613000	1	mg/kg
900-176	- 1	Barrum	0	0	911	150	141 26	26400	-	mg/kg
900-176	CN45-000	Cadmium	0	0	8 36	85	191	962	1	mg/kg
900-176	CN45-000	Chromium	0	0	35 2	06	16 99	268	1	mg/kg
900-176	- 1	Copper	0	0	8 66	300	18 06	40900		mg/kg
900-176	CN45-000	Vanadıum	0	0	/ 109	100	45 59	7150	433	mg/kg
900-176	CN45-000	Zinc	0	0	292	50	73 76	307000	1	mg/kg
900-176	CN45-000	Calcium	0	0	10400	3000	4467	N/A	1	mg/kg
900-176	CN45-001	2,4,6-Tribromophenol	0	0	3100	0	N/A	N/A	1	ug/kg
900-176	CN45-001	Americium-241	0	0	13	4	0 02	92	1900	pCı/g
900-176	CN45-001	Uranium-235	0	0	0 11	1	600	8	1900	pC1/g
900-176	CN45-001	Terphenyl-D14	0	0	2100	0	N/A	N/A	1	ug/kg
900-176	CN45-001	2-Fluorobiphenyl	0	0	2000	0	N/A	N/A	1	ug/kg
900-176	CN45-001	O-Fluorophenol	0	0	2800	0	N/A	N/A		ug/kg
900-176	CN45-001	Nitrobenzene-D5	0	0	2000	0	N/A	N/A	1	ug/kg
900-176	CN45-001	Phenol-D5	0	0	2900	0	N/A	N/A	1	ug/kg

LHSS	Location						TOTAL TOTAL	Learn Son Section 1200 Love Companion 1200	ainic	
	Tocation	Ananyre	201	Soil End	Result	RLDL	Background	Wildlife Refuge	Ecological	Unit
			Begin	Depth			Mean +2SD	Worker Action	Receptor	
			(feet)	(leet)				Level	Action	
900-176	CN45-001	Iron	0	0	34000	2500	18037	307000	revei	
900-176	CN45-001	Manganese	0	0	480	200	365.08	2460		IIIB/NB
900-176	CN45-001	Nickel	6	) c	218	3 5	200 000	3480	-	mg/kg
900-176	CN45-001	Potassiim			51,7	8	14 91	20400	1	mg/kg
900-176	CN45-001	Strontium			24100	2000	2967 2	N/A	1	mg/kg
Т	CN45-001	Argania		0	230	250	48 94	613000	1	mg/kg
Т	CN45 001	Auseilic	٥١٥	0	13.1	25	10 09	22 2	216	mg/kg
	CN45-001	Barlum	٥١	0	760	150	141 26	26400		mg/kg
Т	j	Cinomium	٥		416	8	16 99	268		mg/kg
$\neg \vdash$	-	Copper	0		959	300	18 06	40900		mg/kg
$\neg$	CN43-001	Vanadium		0	112	100	45 59	7150	433	mg/kg
T	CIN43-001	Zinc	0	0	304	20	73.76	307000		mg/kg
$\neg$	CN45-001	Calcium	0	0	16600	3000	4467	N/A	1	me/ke
T	CN46-000	Bis(2-Ethylhexyl)Phthalate	0	0	930	069	N/A	1970000		ug/kg
$\top$	CN46-000	2,4,0-1 ribromophenol	0	0	3000	0	N/A	N/A		ug/kg
T	CN146-000	Americium-241	0	0	0 83	4	0 02	76		DC1/g
$\neg$	CN46-000	1 erpnenyl-D14	0	0	2000	0	N/A	N/A		ug/kg
Т	Т	2-Fluorobiphenyl	0	0	1900	0	N/A	N/A		ug/kg
Т	T	O-Fluorophenol		0	3000	0	N/A	N/A	-	ug/kg
7	CN46-000	Mittobenzene-D3		0	2100	0	N/A	N/A		ug/kg
T		ritenol-D3		0	3000	0	N/A	N/A		ug/kg
┰	Т	IIOII I ead			29000	2500	18037	307000		mg/kg
$\top$	Т	Manganese			989	8	54 62	1000	25 6	mg/kg
$\top$	Т	Nickel			453	200	365 08	3480		mg/kg
T	Т	Potassiim			85 25	3	1491	20400	1	mg/kg
Т	Т	Strontium		٥	25600	2000	2967 2	N/A		mg/kg
Т	T	Domini	9	0 0	294	250	48 94	613000		mg/kg
T	T	Codmin			843	130	141 26	26400	1	mg/kg
Т	T	Chromina			/00	82	191	962		mg/kg
1	$\top$	Conser			57.6	8	16 99	268		mg/kg
7	1	raddoa			4	300	18 06	40900	1	mg/kg



ļ	IHS	IHSS Group 000-1 Wildlife	Refuge V	Vorker/Ec	ological 1	Receptor	Action Level	life Refuge Worker/Ecological Receptor Action Level Comparison Table	able	
IHSS	Location	Analyte	Soff Begin Depth	Soil End Depth (feet)	Result	RLDL	Background Mean +2SD	Wildlife Refuge Worker Action Level	Ecological Receptor Action	Unit
900-176	CN46-000	Copper	0	0	941	300	18 06	40900	1	mg/kg
900-176	CN46-000	Vanadium	0	0	208	001	45 59	7150	433	mg/kg
900-176	CN46-000	Zinc	0	0	332	20	73 76	307000	1	mg/kg
900-176	CN46-000	Calcium	0	0	21100	3000	4467	N/A		mg/kg
900-176	CN46-001	2,4,6-Tribromophenol	0	0	3200	0	N/A	N/A	١	ug/kg
900-176	CN46-001	Uranium-235	0	0	0 1	1	60 0	8	1900	pCı/g
900-176	CN46-001	Terphenyl-D14	0	0	2100	0	N/A	N/A		ug/kg
900-176	CN46-001	2-Fluorobiphenyl	0	0	2100	0	N/A	N/A	-	ug/kg
900-176	CN46-001	O-Fluorophenol	0	0	3300	0	N/A	N/A		ug/kg
900-176	CN46-001	Nitrobenzene-D5	0	0	2300	0	N/A	N/A	1	ug/kg
900-176	CN46-001	Phenol-D5	0	0	3300	0	N/A	N/A	-	ug/kg
900-176	CN46-001	Iron	0	0	35000	2500	18037	307000		mg/kg
900-176	CN46-001	Manganese	0	0	485	700	365 08	3480		mg/kg
900-176	CN46-001	Nickel	0	0	40	09	14 91	20400	-	mg/kg
900-176	CN46-001	Potassium	0	0	30800	2000	2967 2	N/A		mg/kg
900-176	CN46-001	Strontium	0	0	314	250	48 94	613000	-	mg/kg
900-176	CN46-001	Arsenic	0	0	102	25	10 09	22.2	21 6	mg/kg
900-176	CN46-001	Barıum	0	0	1050	150	141 26	26400		mg/kg
900-176	CN46-001	Chromium	0	0	28 8	06	16 99	268		mg/kg
900-176	CN46-001	Copper	0	0	704	300	18 06	40900		mg/kg
900-176	CN46-001	Vanadıum	0	0	95 2	100	45 59	7150	433	mg/kg
900-176	CN46-001	Zinc	0	0	128	50	73 76	307000	}	mg/kg
900-176	CN46-001	Calcium	0	0	9410	3000	4467	N/A	-	mg/kg
900-176	CN46-002	2,4,6-Tribromophenol	0	0	3400	0	N/A	N/A	1	ug/kg
900-176	CN46-002	Terphenyi-D14	0	0	2300	0	N/A	N/A	1	ug/kg
900-176	CN46-002	2-Fluorobiphenyl	0	0	1900	0	N/A	N/A	-	ug/kg
900-176	CN46-002	O-Fluorophenol	0	0	2900	0	N/A	N/A	-	ug/kg
900-176	CN46-002	Nitrobenzene-D5	0	0	2200	0	N/A	N/A	1	ug/kg
900-176	CN46-002	Phenol-D5	0	0	3000	0	N/A	N/A	1	ug/kg
900-176	CN46-002	Iron	0	0	29300	2500	18037	307000		mg/kg

HESS	Location	Analyte	Sofi	Soil End	Result	RLDL	Background	RL/DL Background Wildlife Refuge Ecological	Ecological	Unit
			Begin	Depth			Mean +2SD	Worker Action	Receptor	
			Depth	(feet)				Level	Action	
			(feet)						Level	
900-176	900-176 CN46-002	Manganese	0	0	637	200	365 08	3480	-	mg/kg
900-176	900-176 CN46-002	Nıckel	0	0	40.7	09	1491	20400	-	mg/kg
900-176	900-176 CN46-002	Potassium	0	0	24200	2000	2 2962	N/A		mg/kg
900-176	900-176 CN46-002	Strontium	0	0	509	250	48 94	000019	1	mg/kg
900-176	900-176 CN46-002	Arsenic	0	0	12	25	60 01	22.2	216	mg/kg
900-176	900-176 CN46-002	Barıum	0	0	823	150	141 26	26400		mg/kg
900-176	900-176 CN46-002	Chromium	0	0	27.6	06	16 99	268		mg/kg
900-176	900-176 CN46-002	Copper	0	0	8 86	300	18 06	40900	-	mg/kg
900-176	900-176 CN46-002	Vanadıum	0	0	108	001	45 59	7150	433	mg/kg
900-176	900-176 CN46-002	Zinc	0	0	120	20	73 76	307000		mg/kg
900-176	900-176 CN46-002	Calcium	0	0	0998	3000	4467	N/A	1	mg/kg
RL/DL - Reporting/Det SD - standard deviation	RL/DL - Reporting/Detection Limit SD - standard deviation	Limit								

### ENCLOSURE IHSS GROUP 000-1 REAL AND QC DATA

